

75969 Hogwarts Astronomy Tower P16902

- P16902 is the unique code of lighting set, we use this to accurately identify the product you purchased and the corresponding manuals and services you need to obtain. Please make sure your product code is the same as the label on the back of the box shown “75969 P16902”.
- Installation requires a lot of patience and great observation that your LEGO bricks will come alive when you get this finished. The bricks with lighting as below, so make sure you're ready and let's get started.



Strategies for the Installation

This instruction divides three sections to complete the installation of the lighting set.

Section A: Check the type and quantity of components.

The quantity and type of components of each products are different and it needs to be carefully checked to make sure there do have enough material.

The type of components is indicated by the label on the bag.

Section B: Test that each components is working properly.

Each components is made individually so it is necessary to test that each components is working properly to avoid the situation that the lighting does not work .

Section C: laying out components following the instruction.

Our material is very small but not fragile, just be reminded that don't to pull the wires too hard. For different people, there may be some installation steps that you can't understand. Please look at the previous and later installation step

Section A: Check the type and quantity of components.

There are 19 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
Bit Lights-15CM-Warm White	Bit Lights-15CM-Warm White	1
Bit Lights-15CM-Red	Bit Lights-15CM-Red	2
Bit Lights-15CM-Green	Bit Lights-15CM-Green	2
Bit Lights-15CM-Blue	Bit Lights-15CM-Blue	1
Multi-Colour Lights 15CM	Multi-Colour Lights 15CM	1
Multi-Colour Lights 15CM	Multi-Colour Lights 15CM	1
Headlights-15CM-Warm White	Headlights-15CM-Warm White	5
LED Strip Lights-Warm White	LED Strip Lights-Warm White	1
Expansion Board	6 Socket Expansion Board	4
	8 Socket Expansion Board	1
	4 Socket Expansion Board	1
USB Power Cable	USB Power Cable-30CM	1
Connecting Cables-5CM	Connecting Cables-5CM	2
Connecting Cables-15CM	Connecting Cables-15CM	1
Connecting Cables-30CM	Connecting Cables-30CM	1
Connecting Cables-20CM	Connecting Cables-20CM	2
Light Strips-Warm White-28	Light Strips-Warm White-28	1
Light Strips-Blue-28	Light Strips-Blue-28	1
Light Strips-Warm White-7	Light Strips-Warm White-7	4
Light Strips-Blue-14	Light Strips-Blue-14	2
Parts package		

Please contact us immediately if there have any missing components.

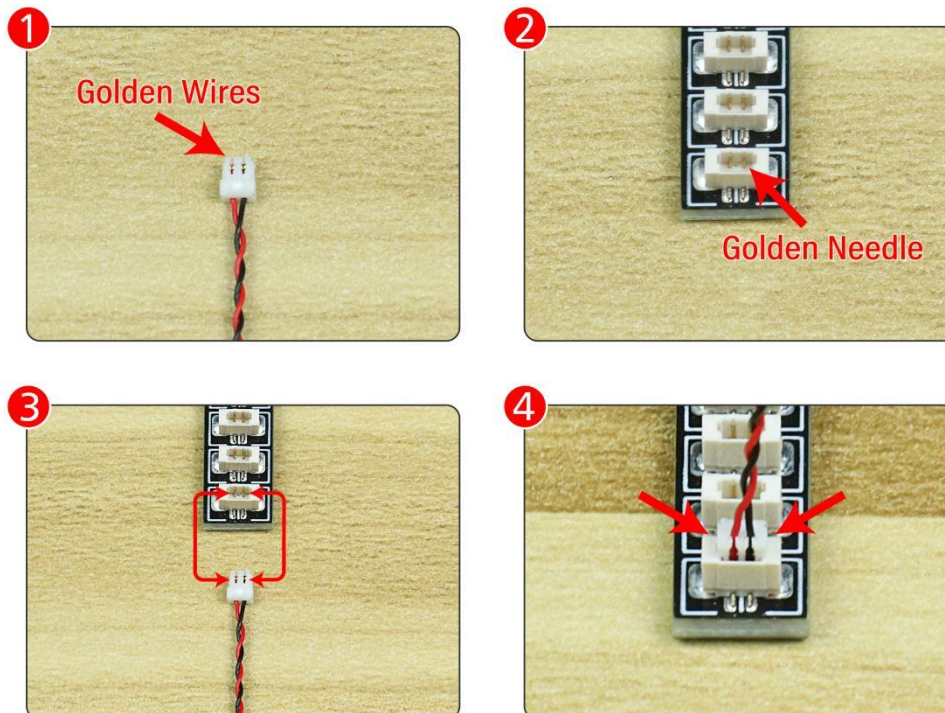
Section B: Test that each components is working properly.

We need a structure to test all lights, so take out the bag with label “USB Power Cord”and “Expansion Boards”as follows.



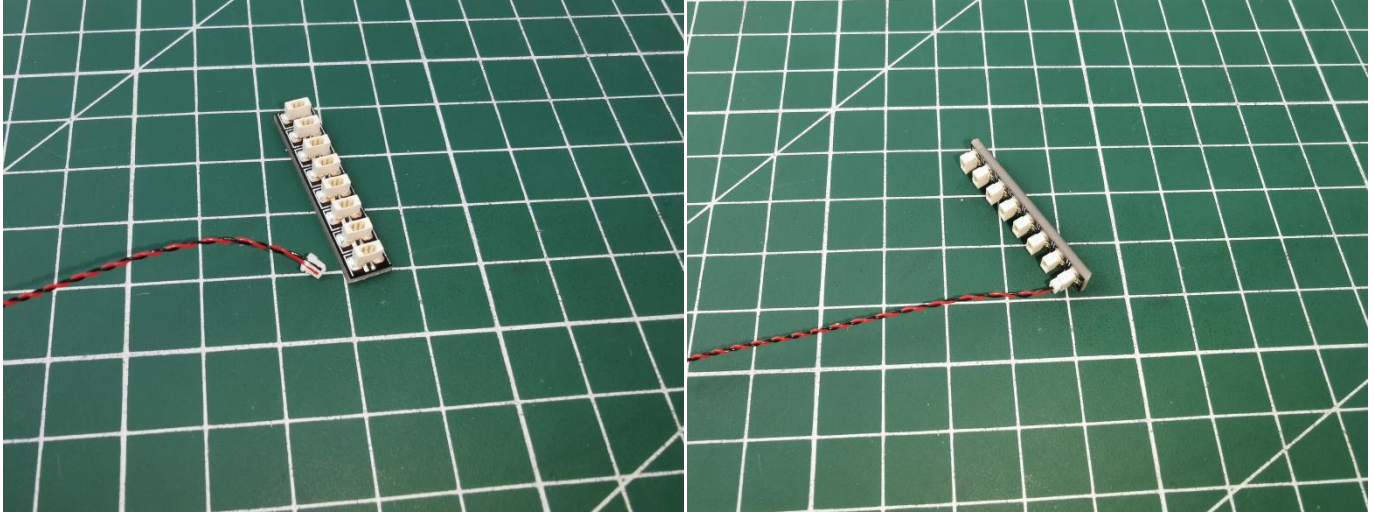
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

Note that on one side of the white plug you can see two very small golden wires that should be connected to the two golden needles in socket of the expansion board.shown as blow.



All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the USB Power Cord and Expansion Boards is as follows:



The USB Power Cord can be powered by phone chargers, power banks, etc.

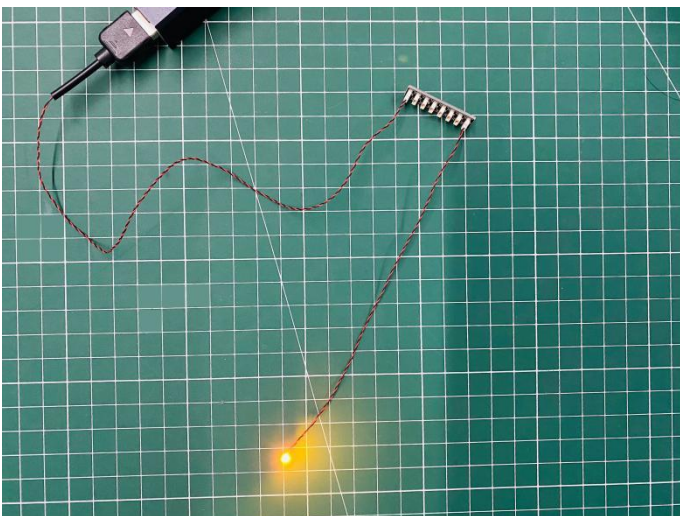
USB connectors to connect devices



This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.



when we test "Bit Lights-15CM-Warm White" particles,Take out the bag labelled "Bit Lights-15CM-Warm White".Take out one of the light and connect it to the socket. Turn on the power bank, the light will turn on normally as shown below.



Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.



The components needs to be tested in this set is 2*Bit Lights-15CM-Red,2*Bit Lights-15CM-Green,1*Bit Lights-15CM-Blue,1*Multi-Colour Lights 15CM,1*Multi-Colour Lights 15CM,5*Headlights-15CM-Warm White,1*LED Strip Lights-Warm White,1*Light Strips-Warm White-28,1*Light Strips-Blue-28,4*Light Strips-Warm White-7,2*Light Strips-Blue-14.

Please contact us immediately if any components don't work.

Section C: laying out components following the instruction.

1. Take the tower firstly and disconnect the A part from the B part.



2. Start from installing lights for the A part, divide into the following 1, 2 and 3 parts.



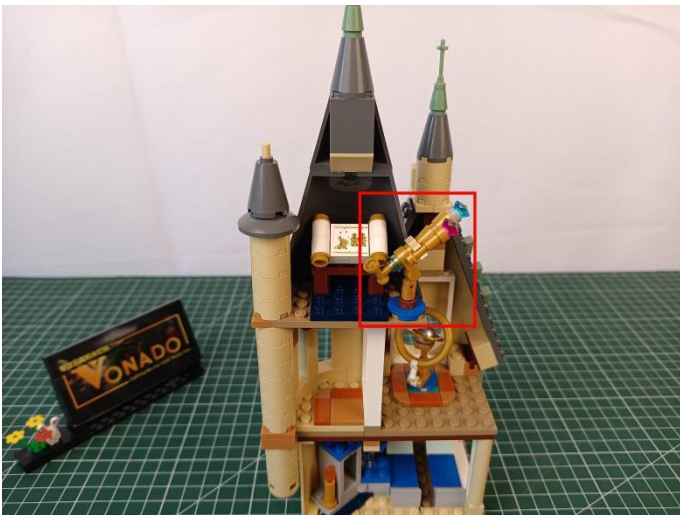
3. Take the 1 part, remove the following pillar.



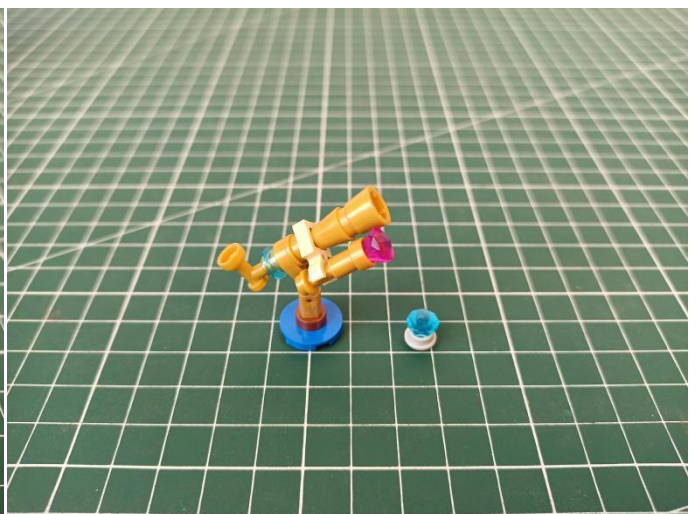
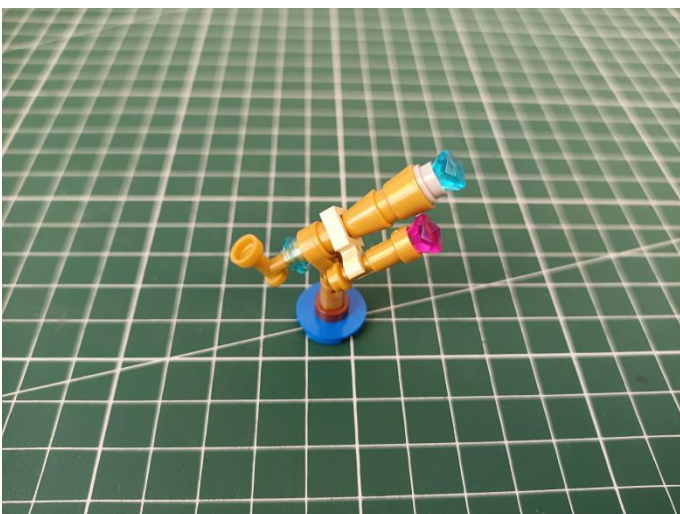
4. Turn to the back.



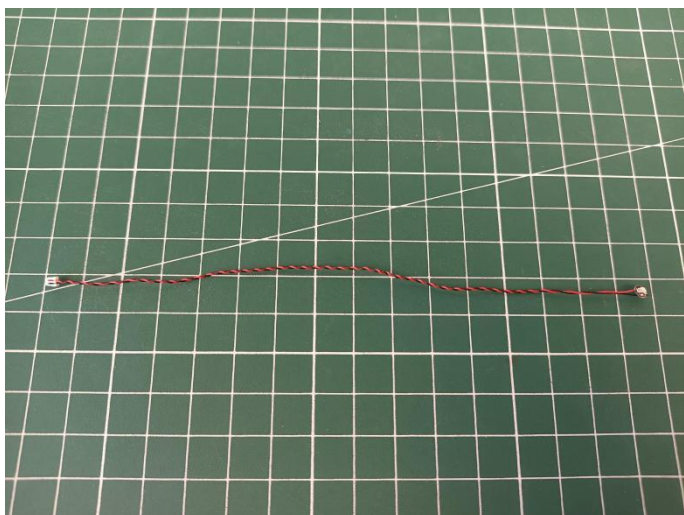
5. Remove the Telescope.



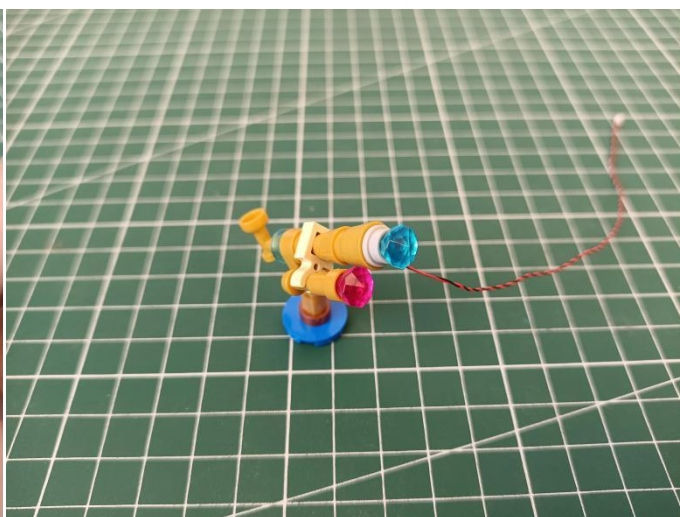
6. Remove the blue crystal from the telescope.



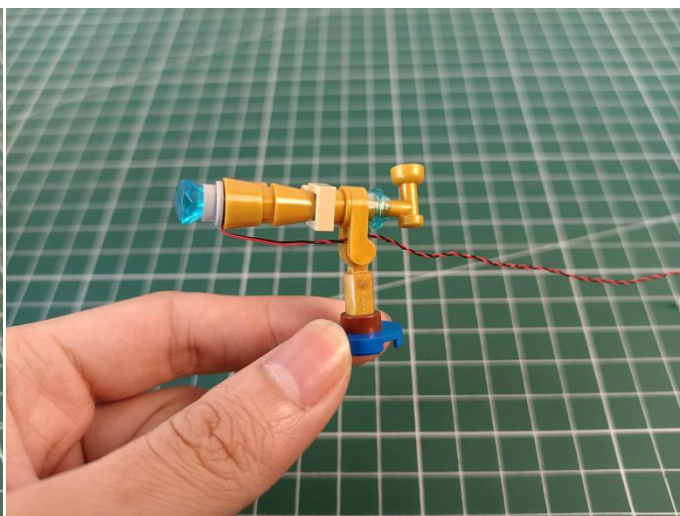
7. Take a blue 15cm dot light.



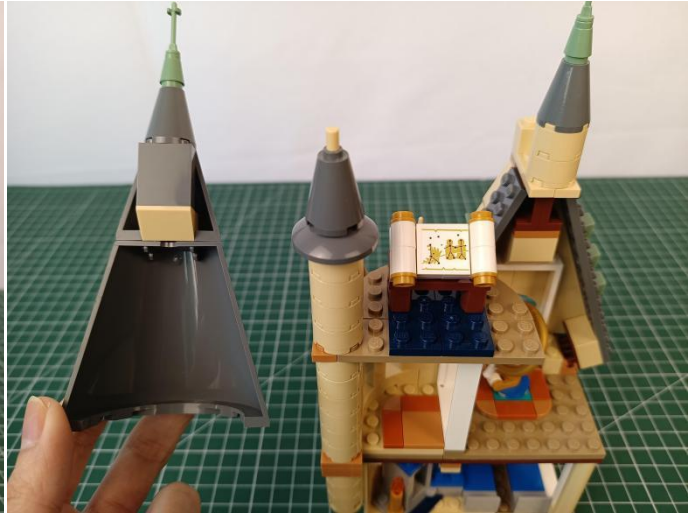
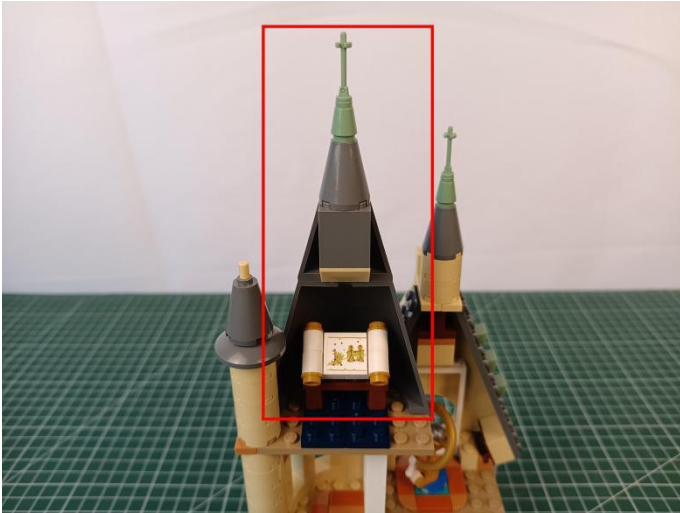
8. With lighting part facing up, reconnect the blue crystal.



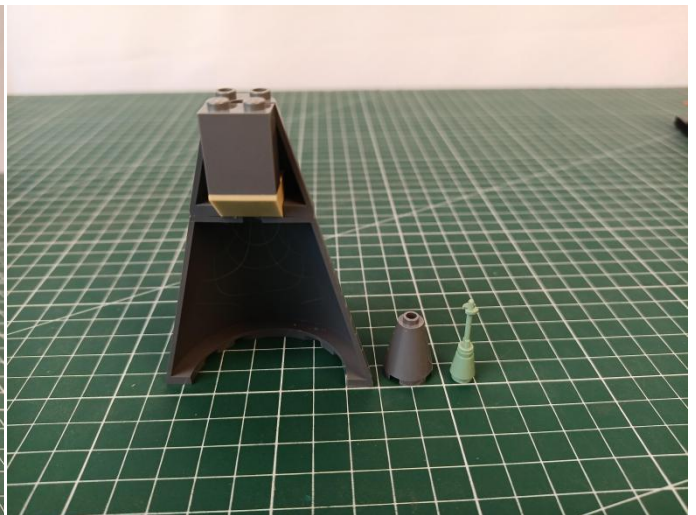
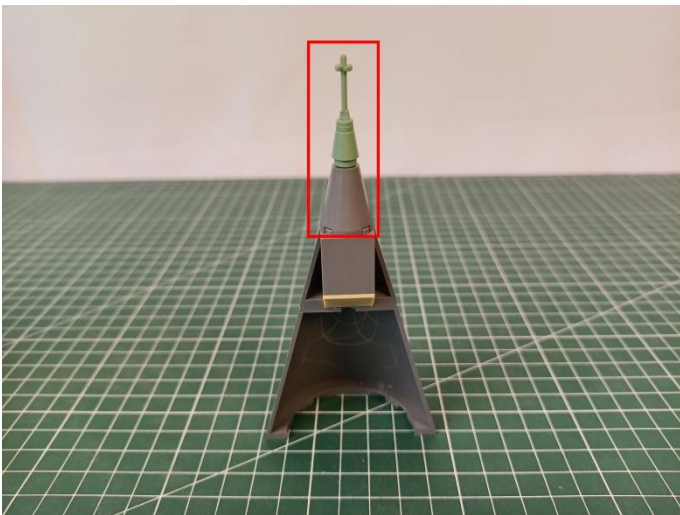
9. Thread the cable through the following space and tighten it up.



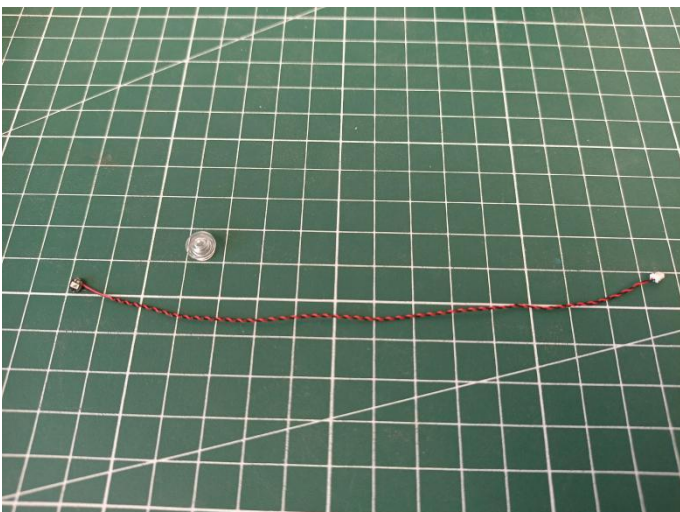
10.Remove the top of the tower as per below.



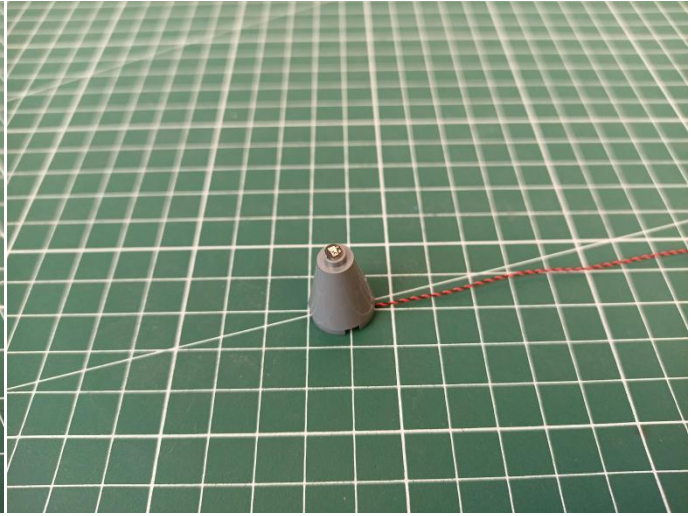
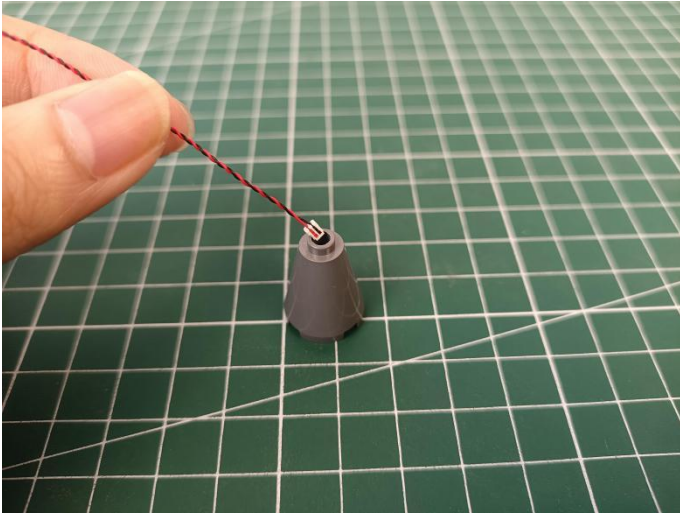
11.Remove the following gray piece and the green piece from the top.



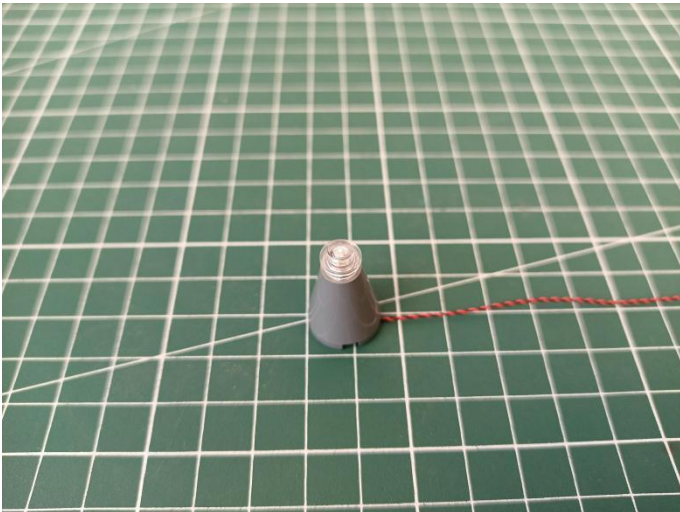
12.Take a 15cm multi colour flashing light, a trans white 1x1 round plate.



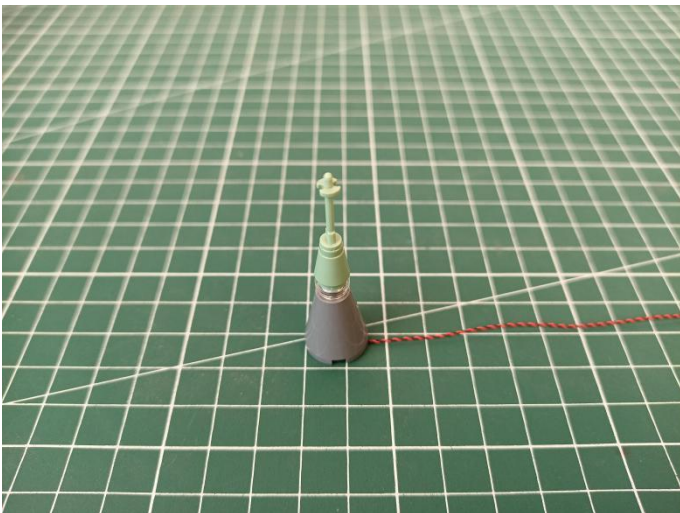
13. With lighting part facing up, thread the cable through the gray piece and tighten it up.



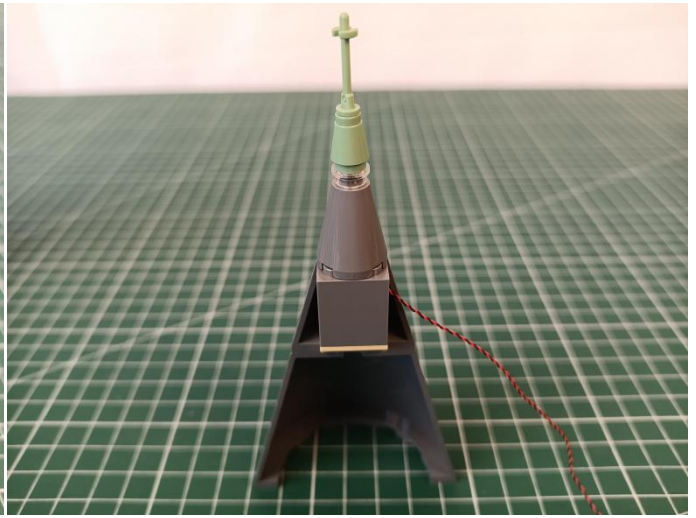
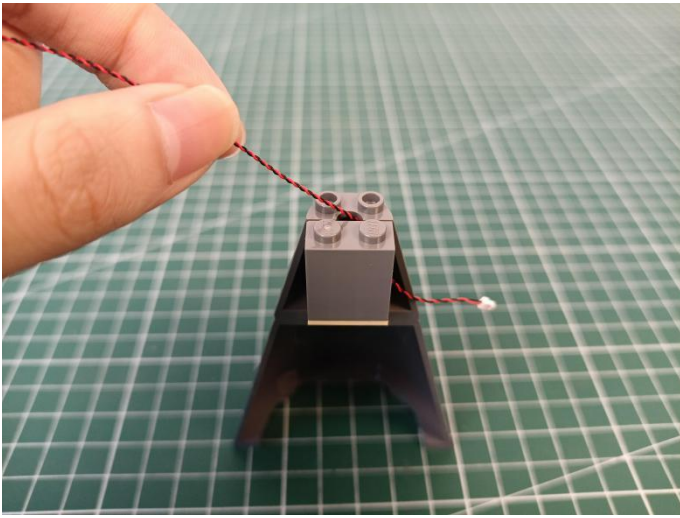
14. Connect the white round plate over.



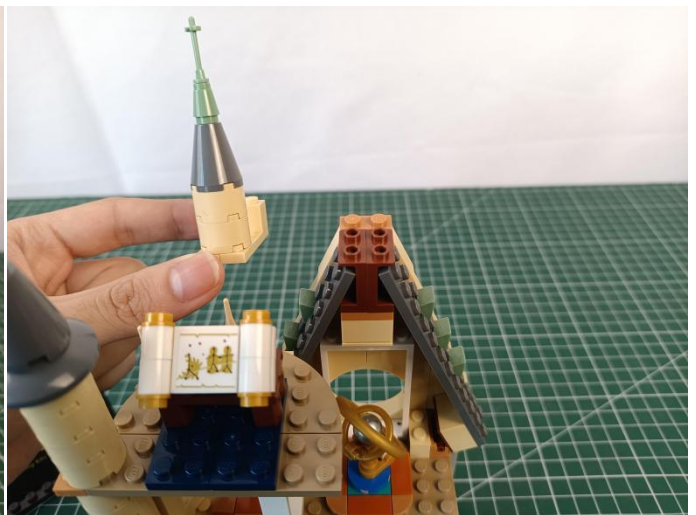
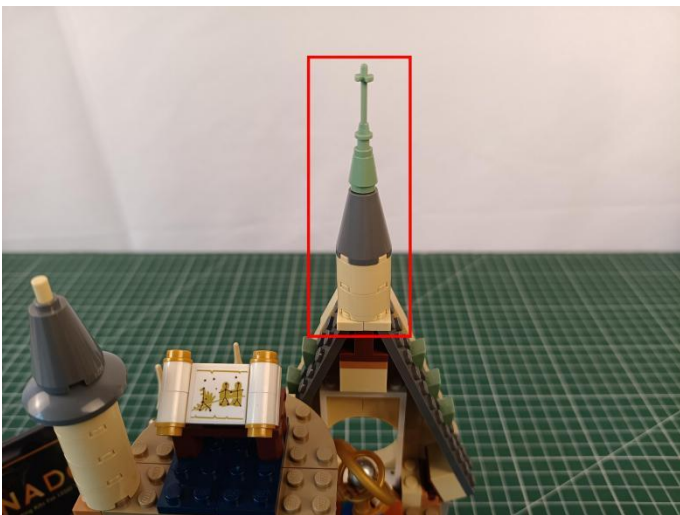
15. Reconnect the green piece.



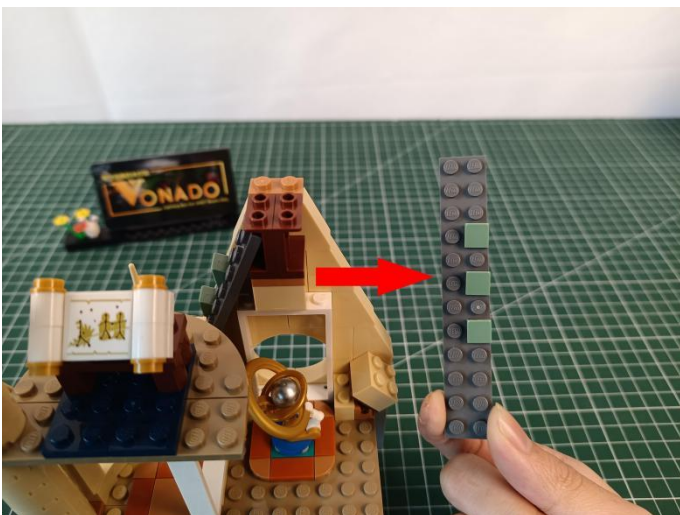
16. Thread the cable through the hole of the following piece, reconnect the pieces.



17. Remove the following top of the tower.



18. Remove the following piece from the side.



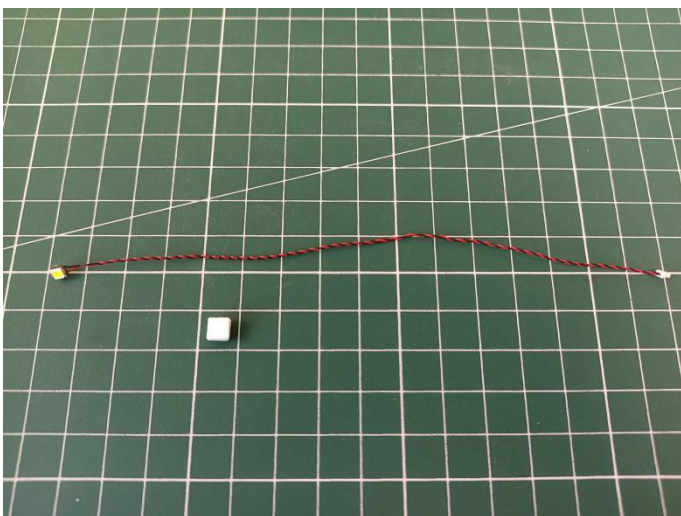
19. Turn to the following place, remove the piece.



20. Turn it over.



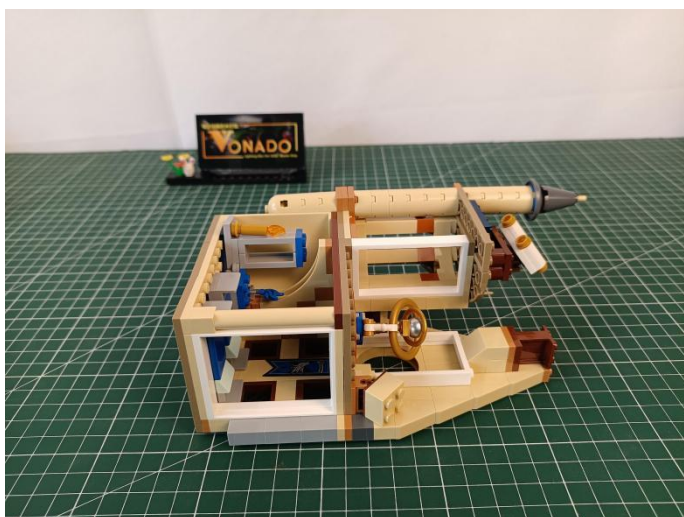
21. Take a 15cm head light, an adhesive square.



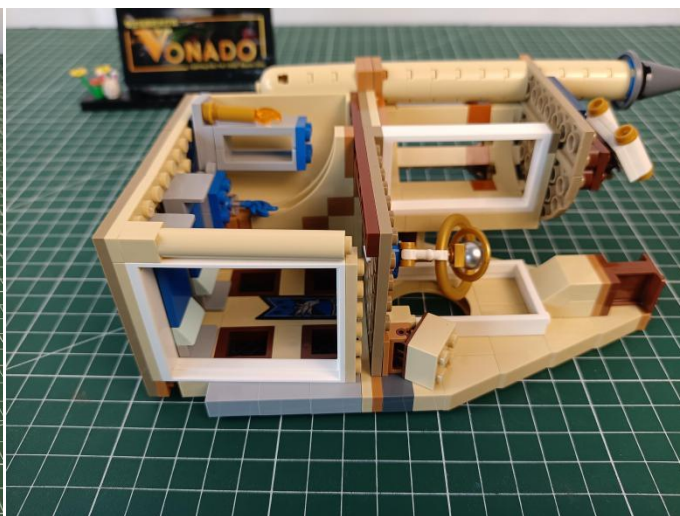
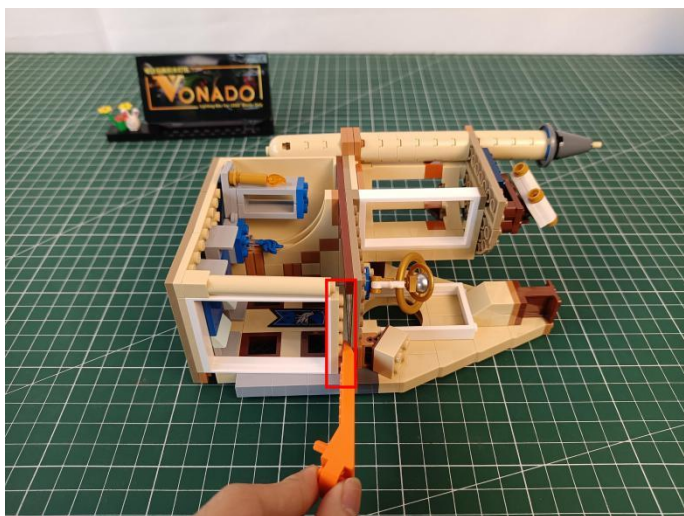
22. Stick the adhesive square inside the room.



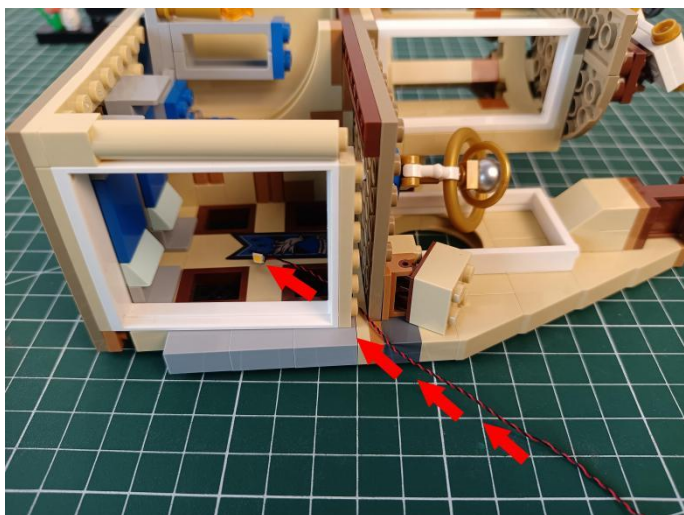
23. Turn to the side.



24. Create a gap at the following place with the tool.



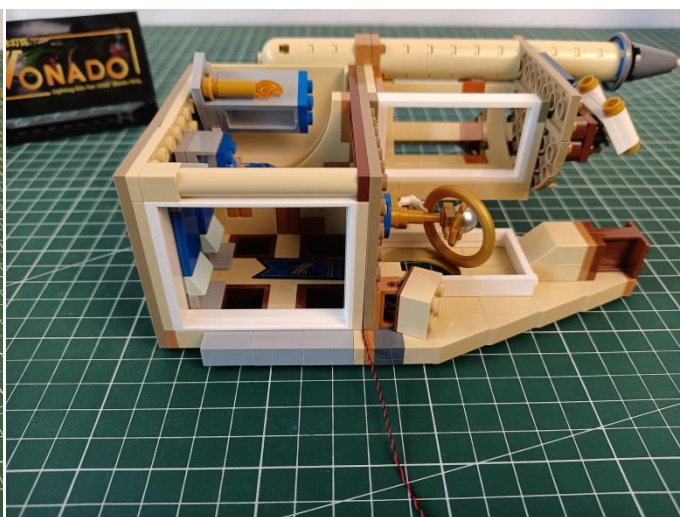
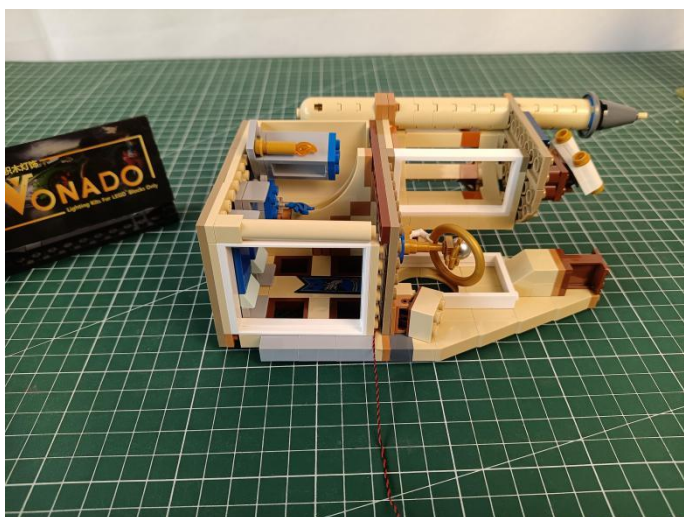
25. Thread the cable through the gap to the inside.



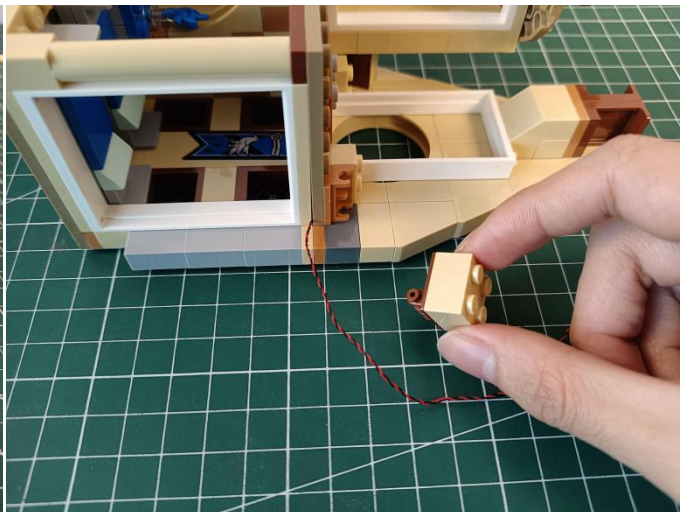
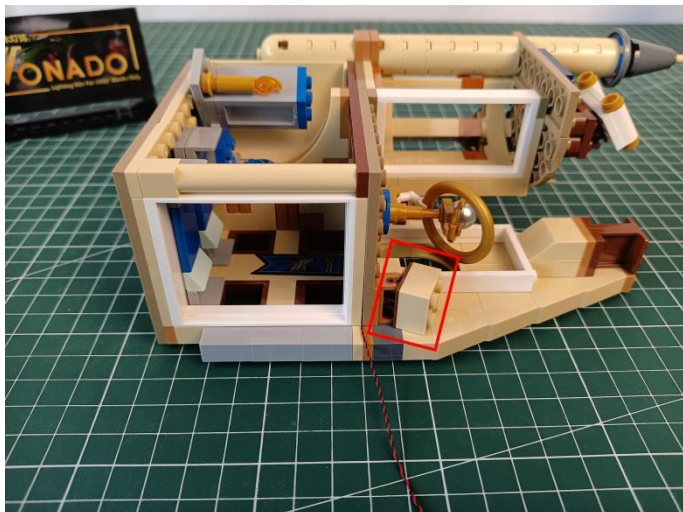
26. Turn to the following place, with lighting part facing up, stick the light to the adhesive square.



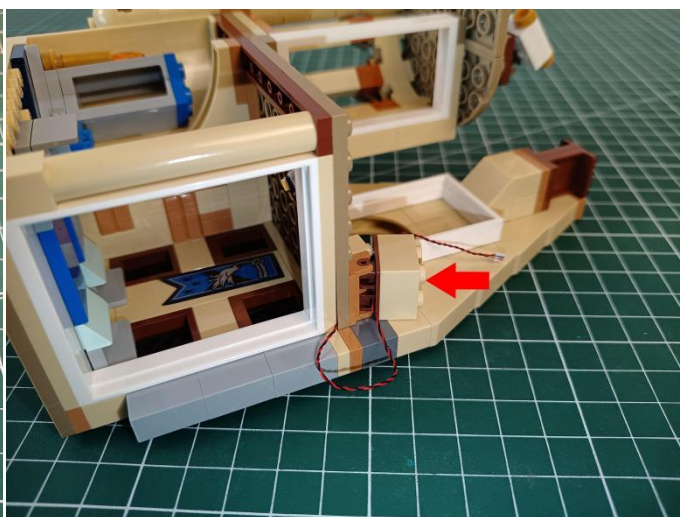
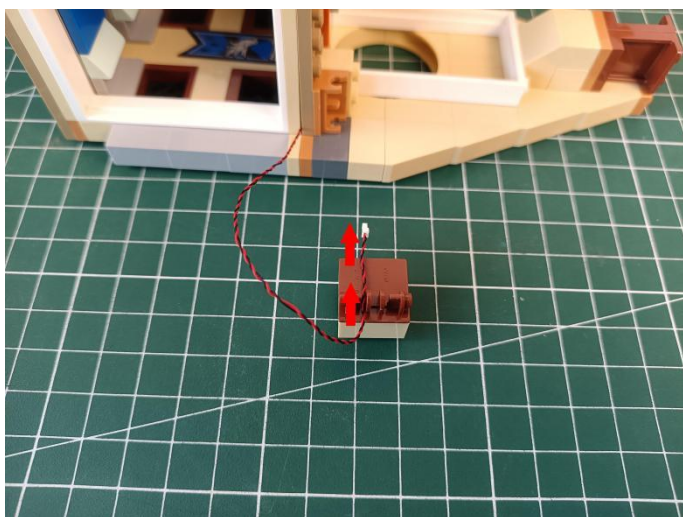
27. Turn to the side, close the gap.



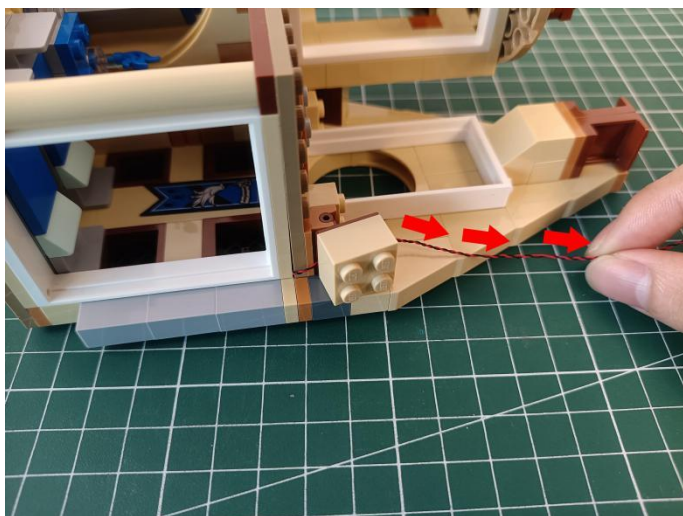
28. Remove the following piece.



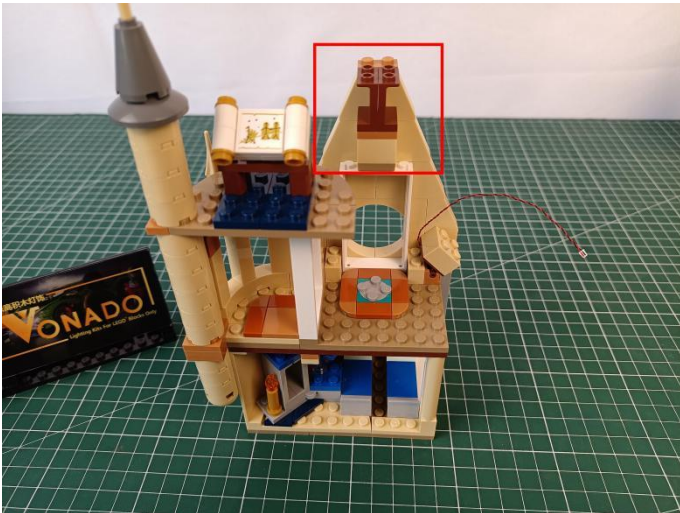
29. Place the cable on the piece and reconnect the piece as per below.



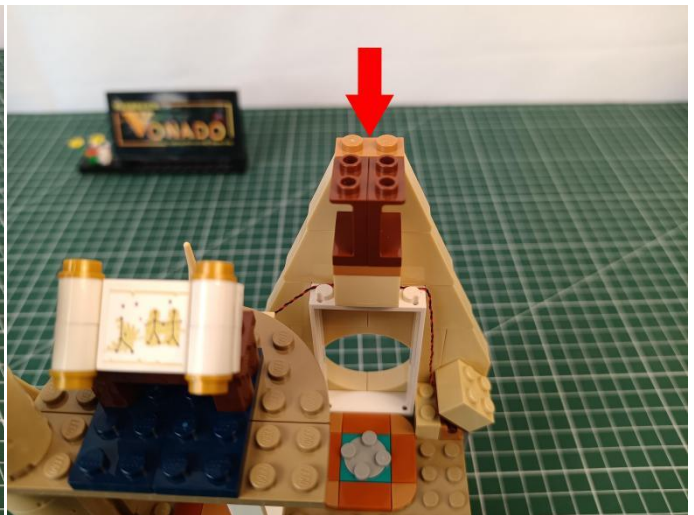
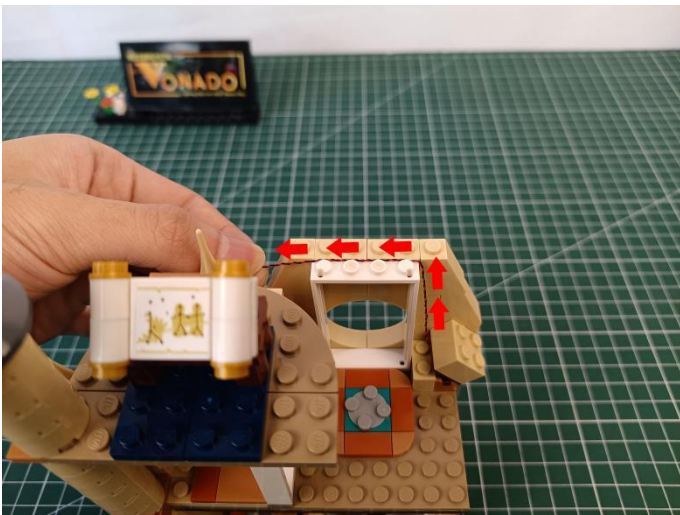
30. Tighten the cable up.



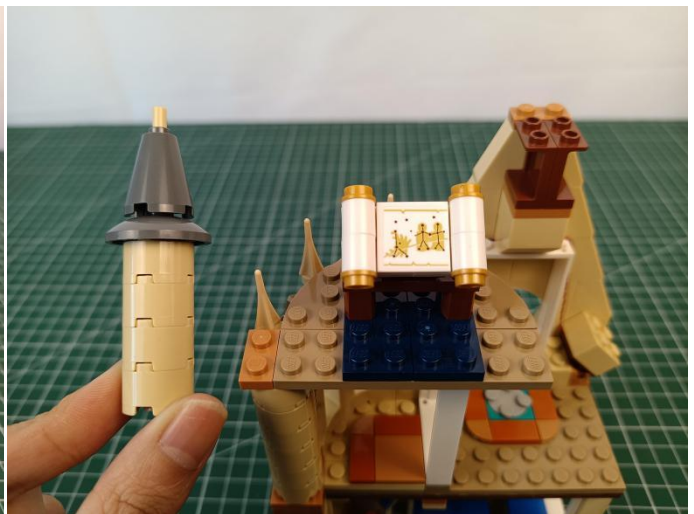
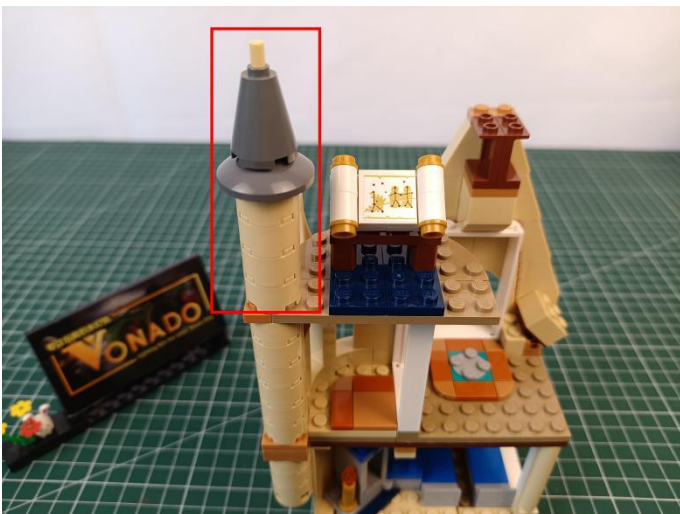
31. Turn the piece back, remove the following piece.



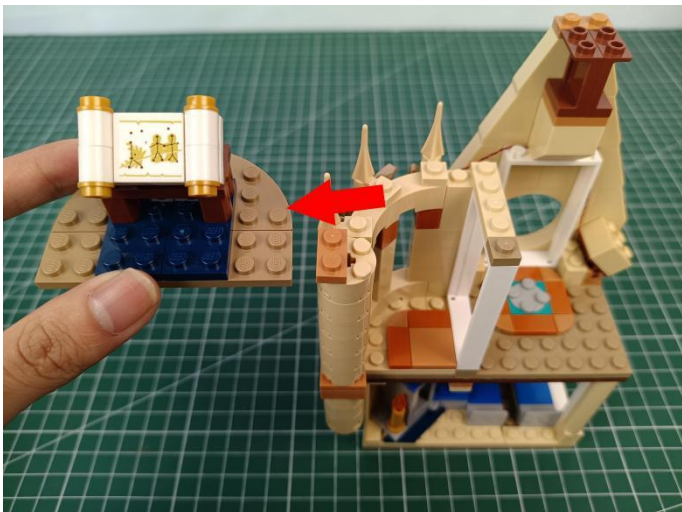
32. Place the cable as per below, reconnect the following piece.



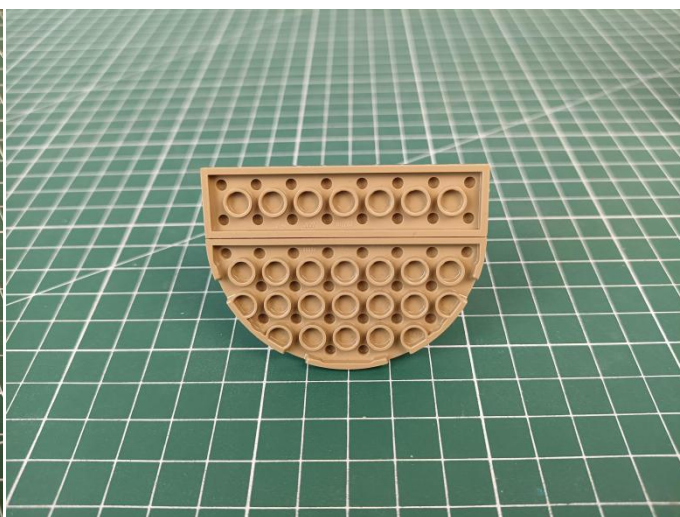
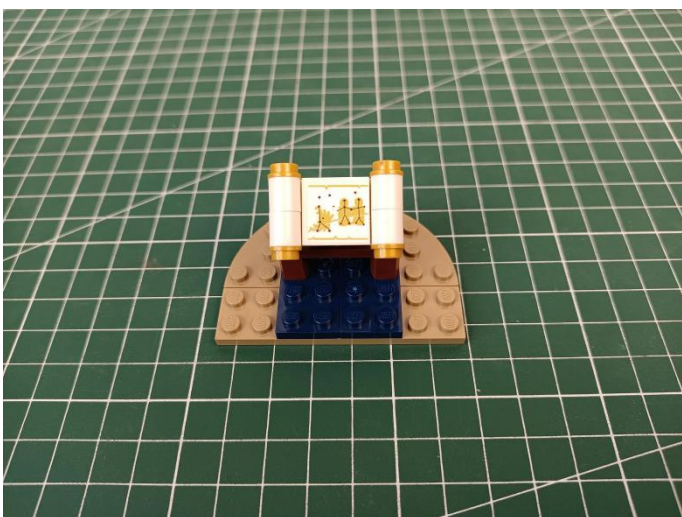
33. Remove the following pillar.



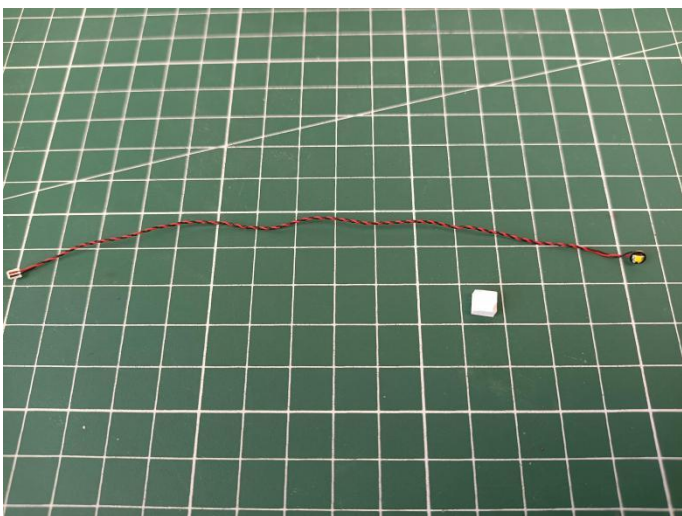
34. Continue to remove the following piece.



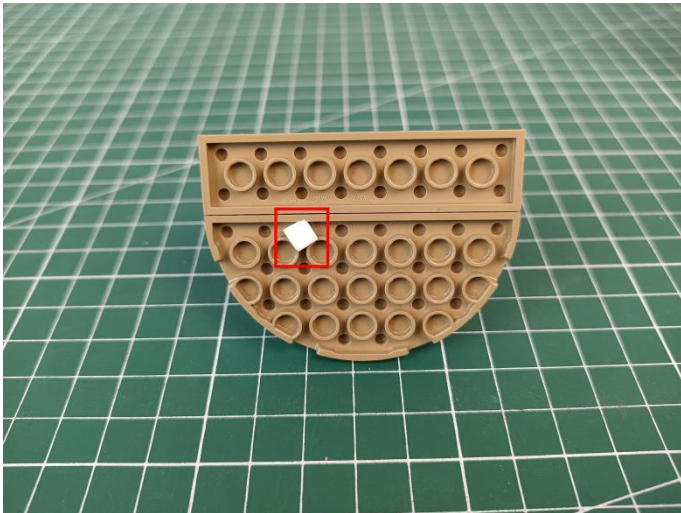
35. Turn the piece to the back.



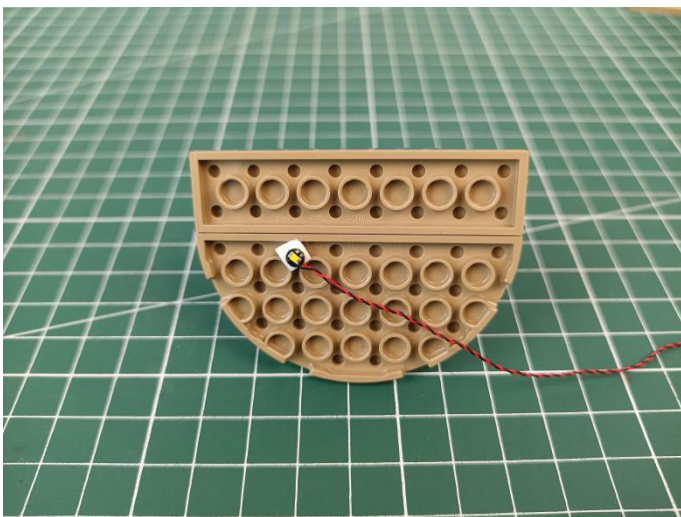
36. Take a warm white 15cm dot light, an adhesive square.



37. Stick the adhesive square to the following place.



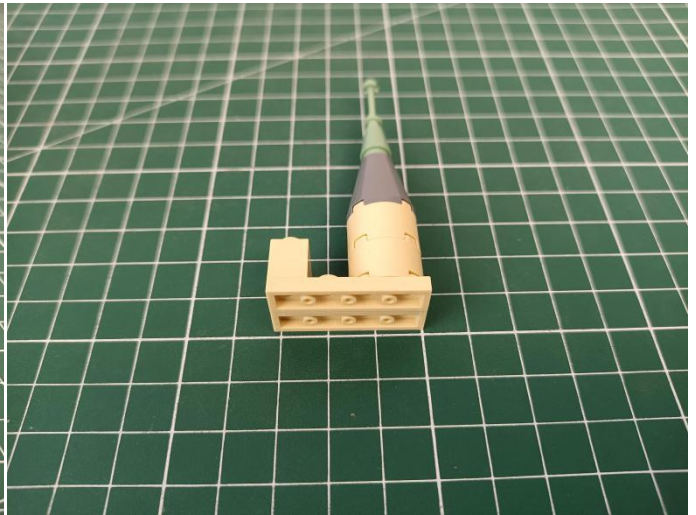
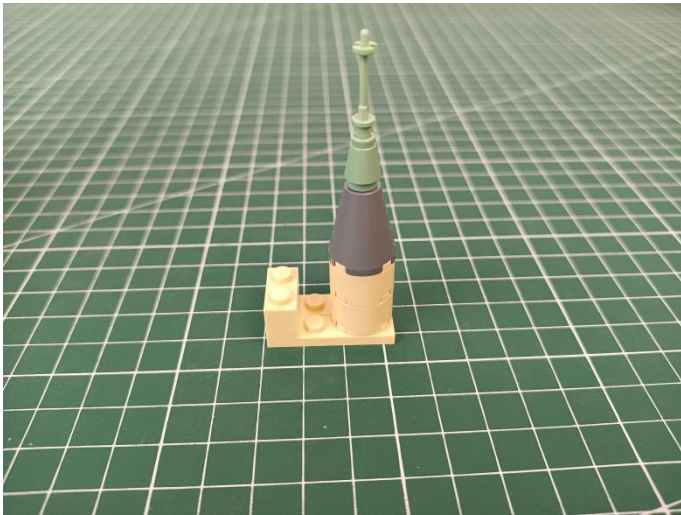
38. With lighting part facing up, stick the light to the adhesive square.



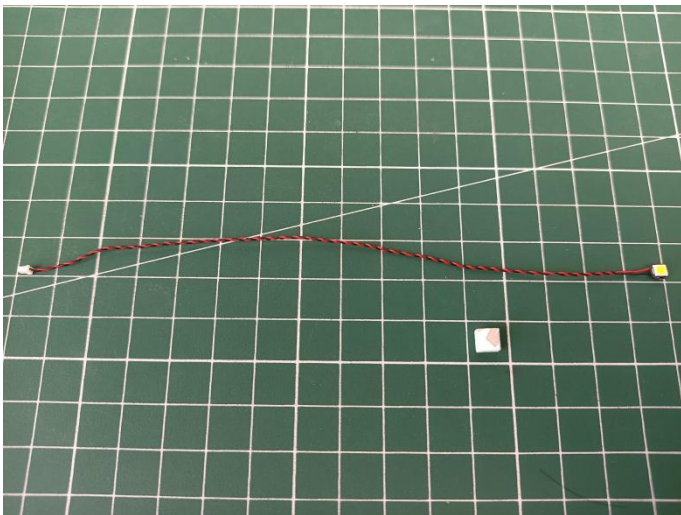
39. Reconnect the following piece.



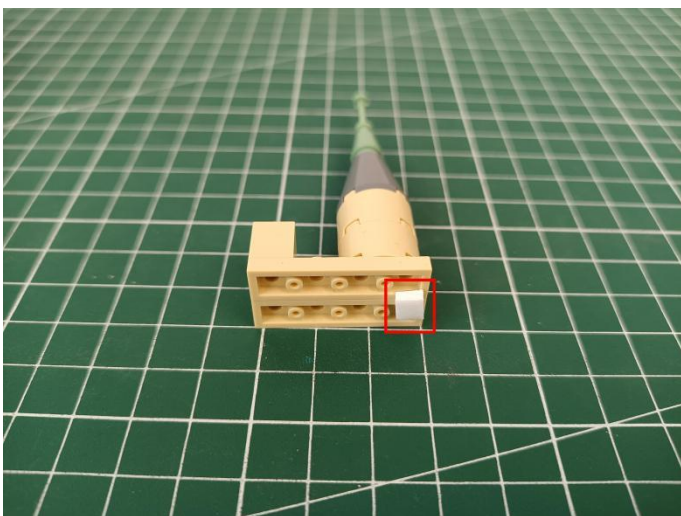
40. Turn the following piece over.



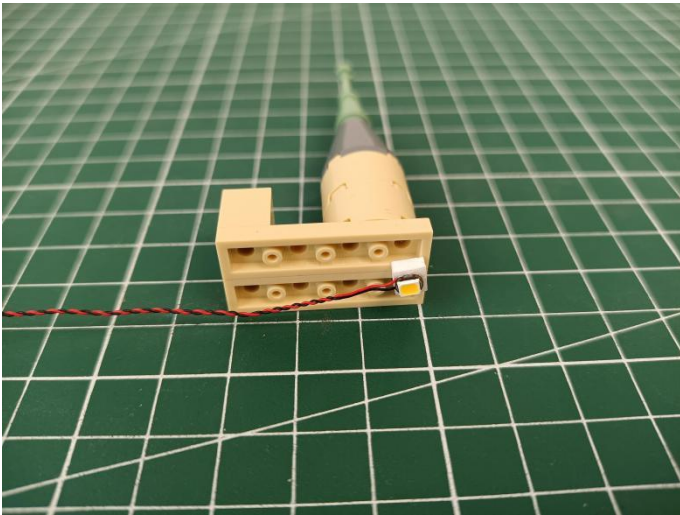
41. Take a 15cm head light, an adhesive square.



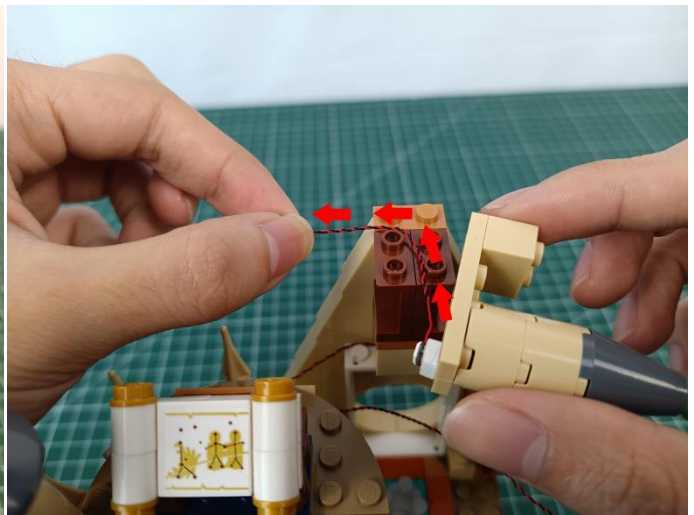
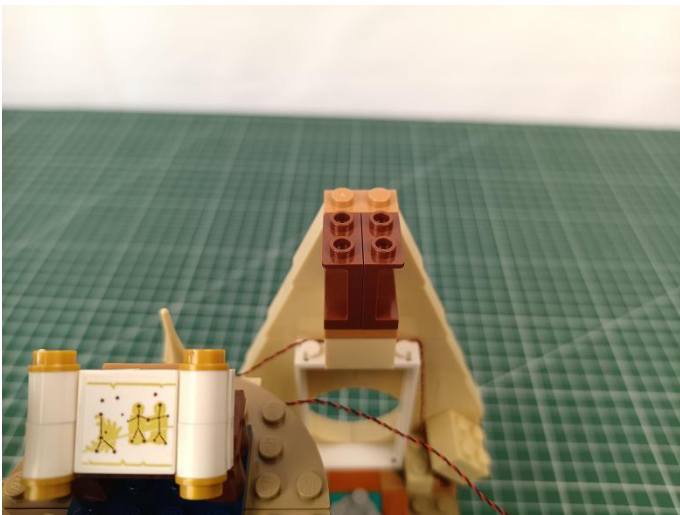
42. Stick the adhesive square to the following place.



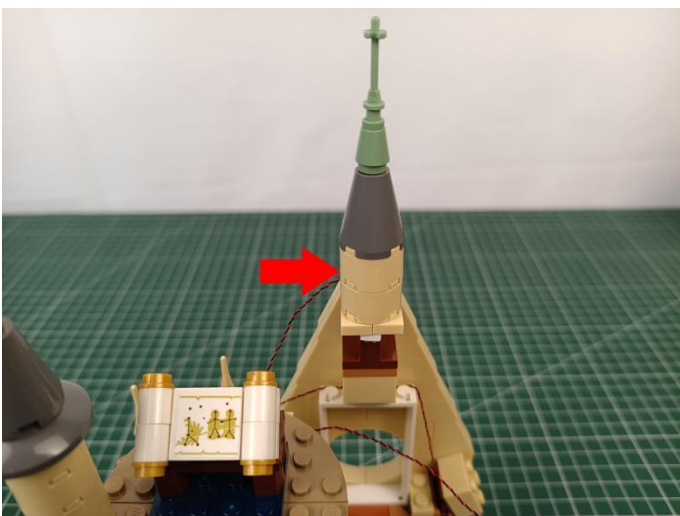
43. With lighting part facing up, stick the light to the adhesive square.



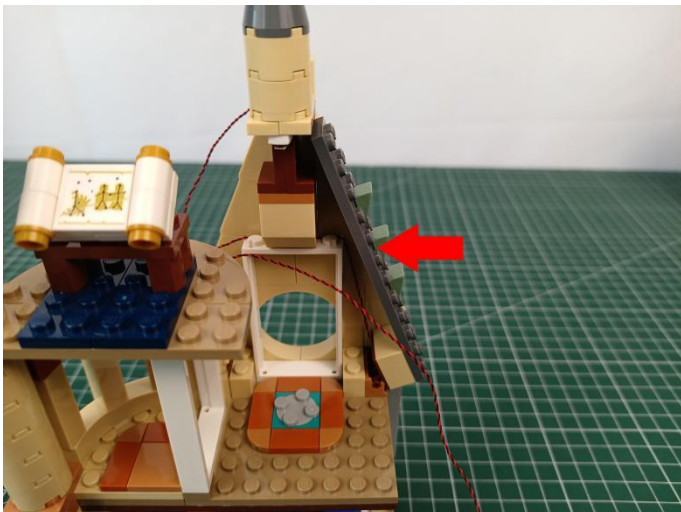
44. Turn to the following place, place the cable as per below.



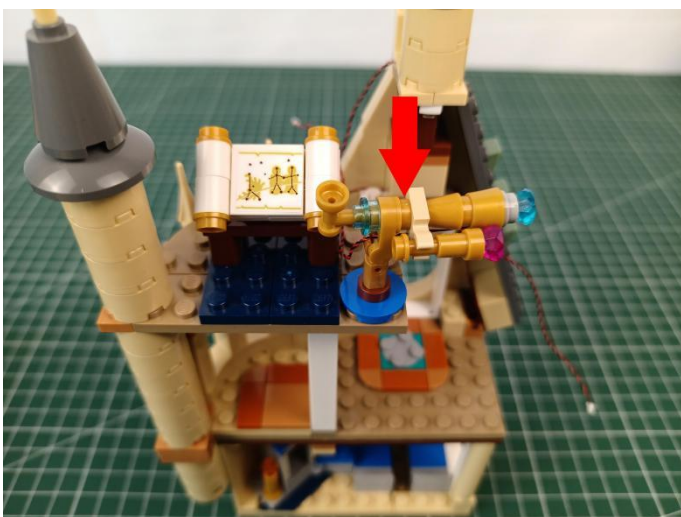
45. Reconnect the top of the tower.



46.Reconnect the side piece.



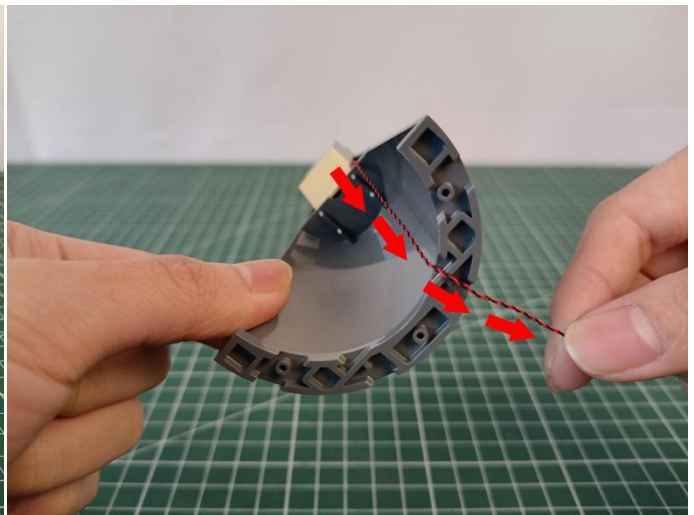
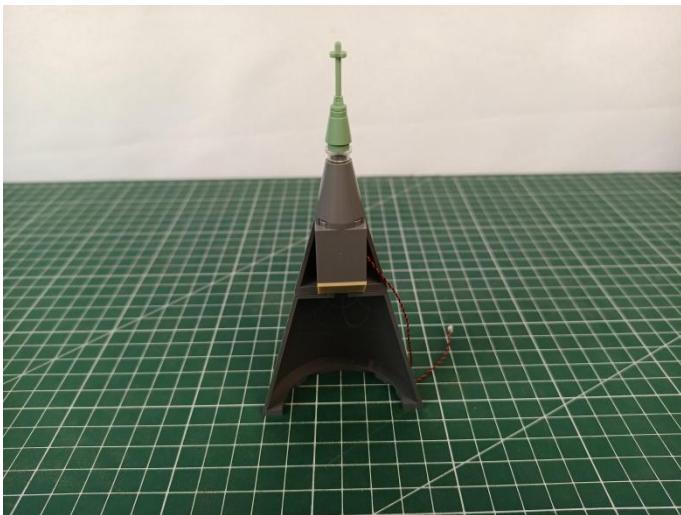
47.Reconnect the telescope.



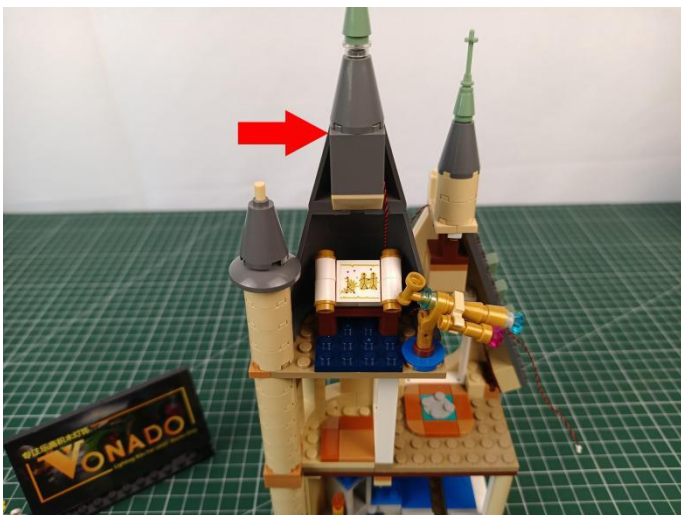
48.Turn to the following place.



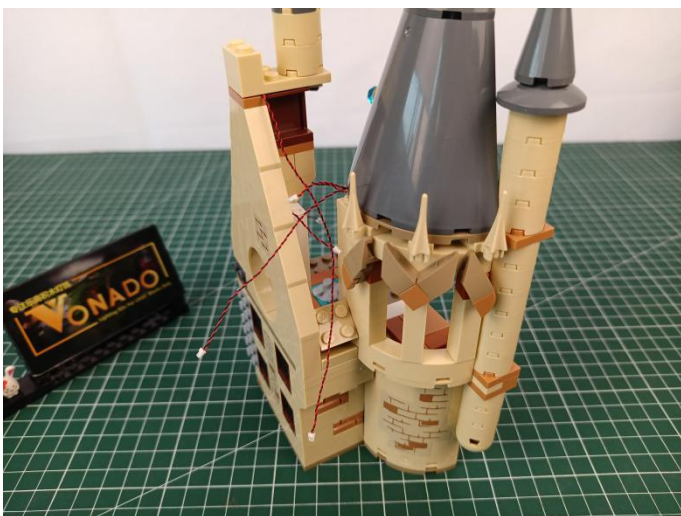
49. Place the cable from the top as per below.



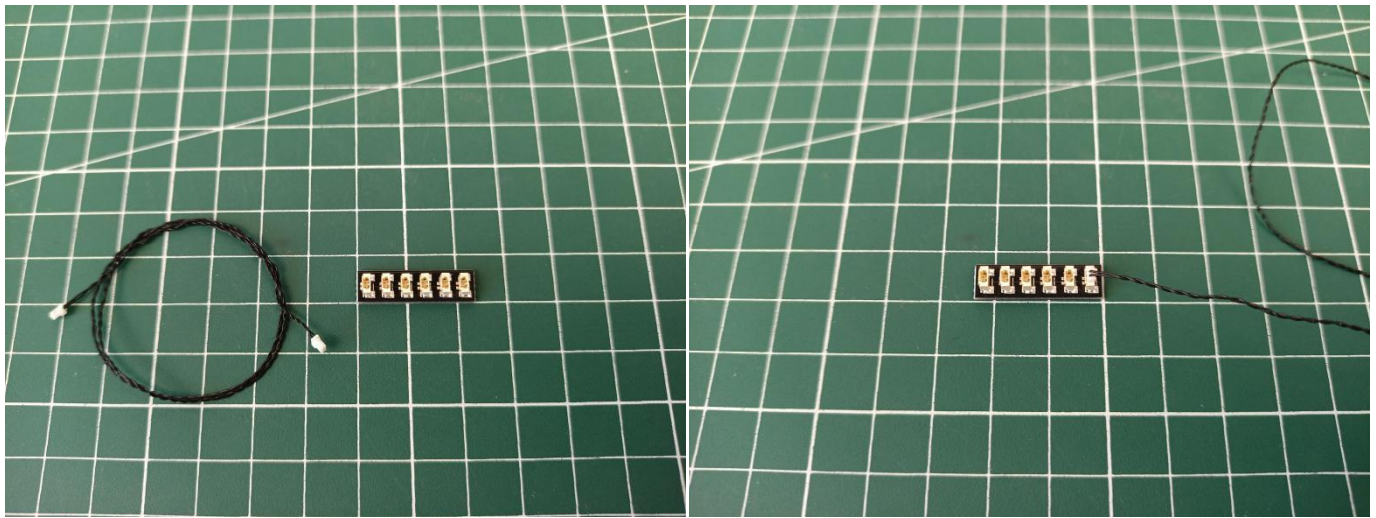
50. Reconnect the top piece.



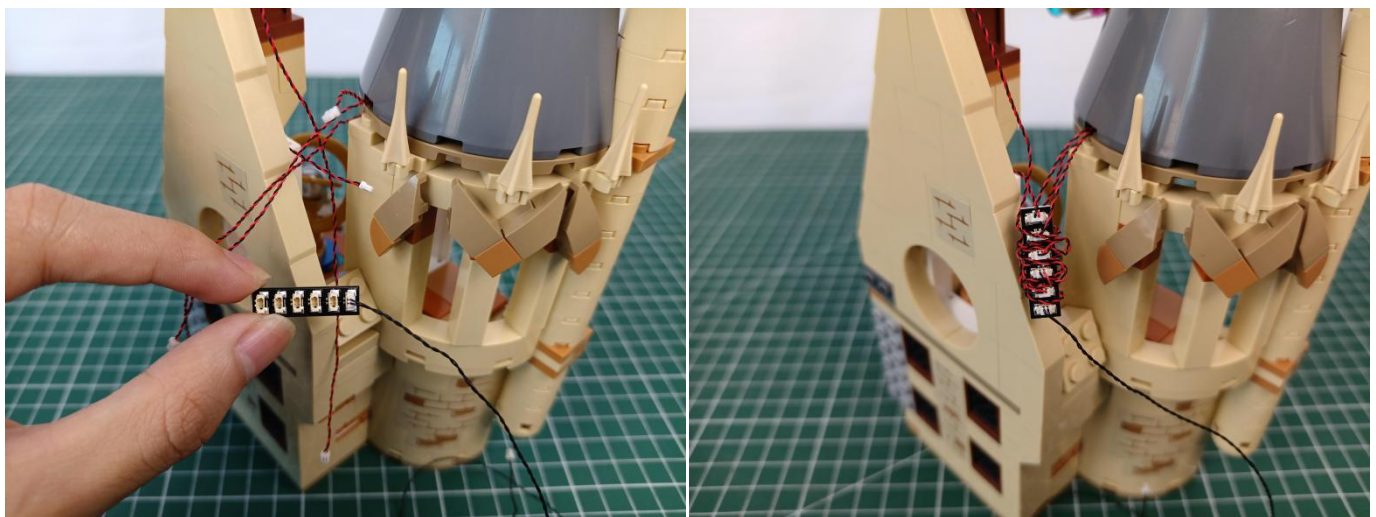
51. Turn to the following place.



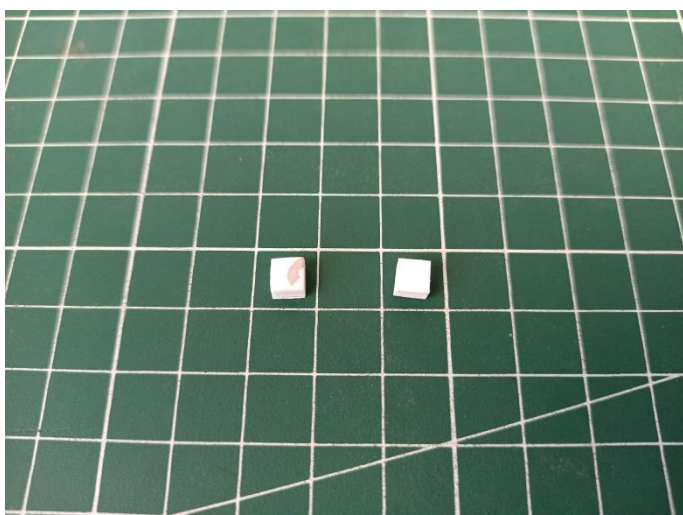
52. Take a 30cm connecting cable, a 6-port expansion board, assemble them as per below.



53. Connect all the cables to the expansion board, and tuck excess cable around the expansion board.



54. Take 2 adhesive squares.



55. Stick them to the back of the expansion board, and stick the expansion board to the following place.



56. Place the cable as per below, reconnect the piece.



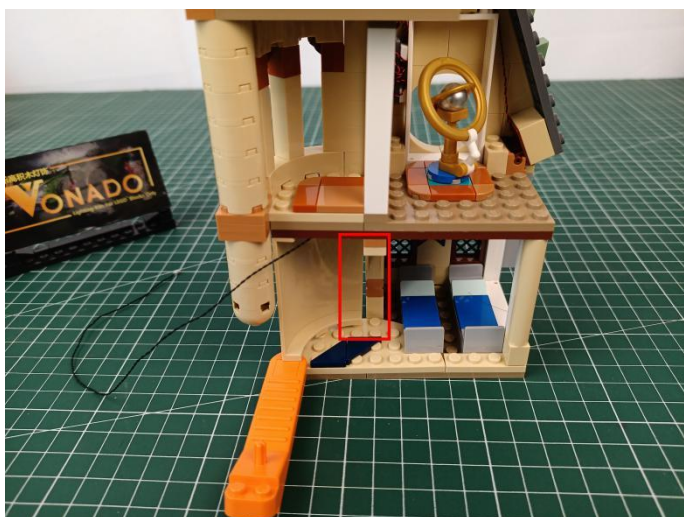
57. Thread the cable through the following space, pull it to the back.



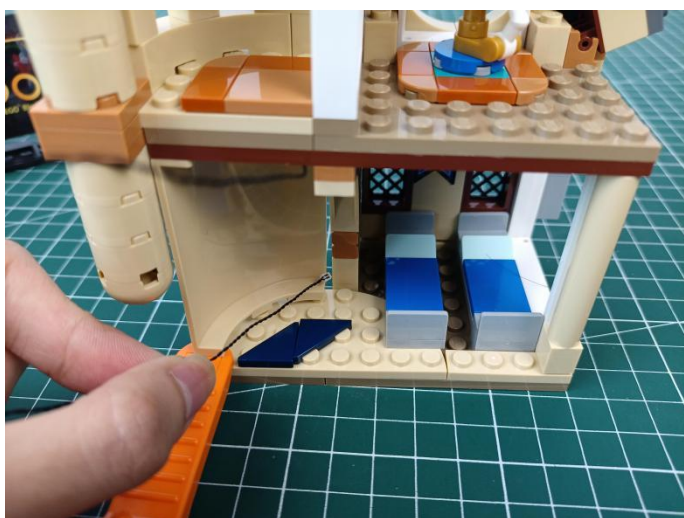
58. Turn to the back, remove the following piece.



59. Create a gap at the following place with the tool.



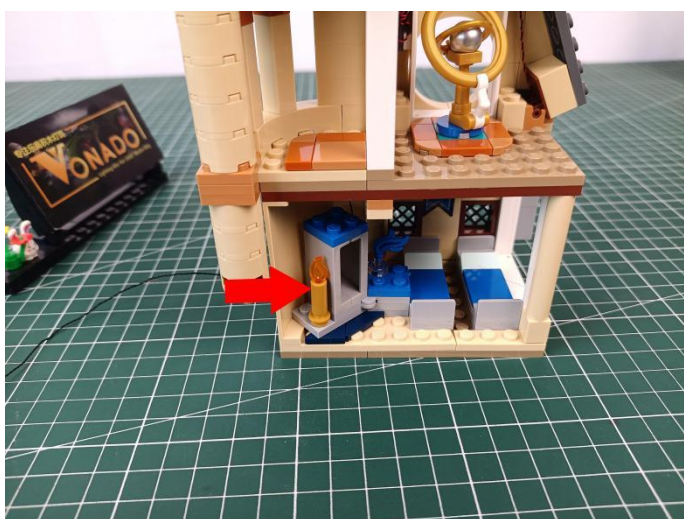
60. Thread the cable through the following space, pull it to the back.



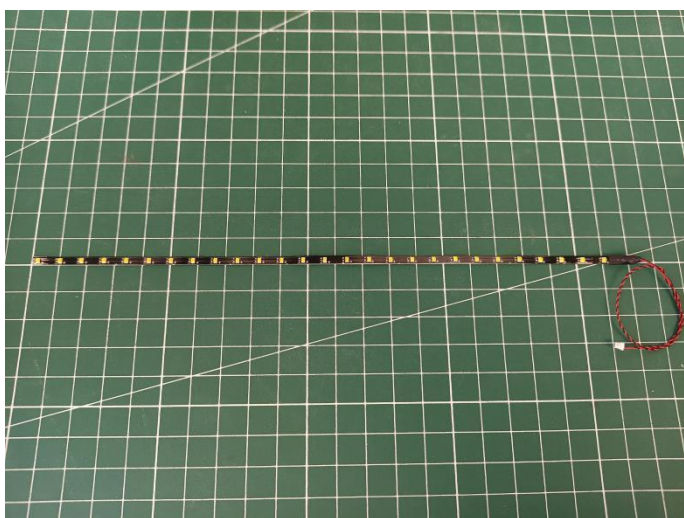
61. Close the gap.



62. Reconnect the following piece.



63. Take a 15cm warm white strip light.



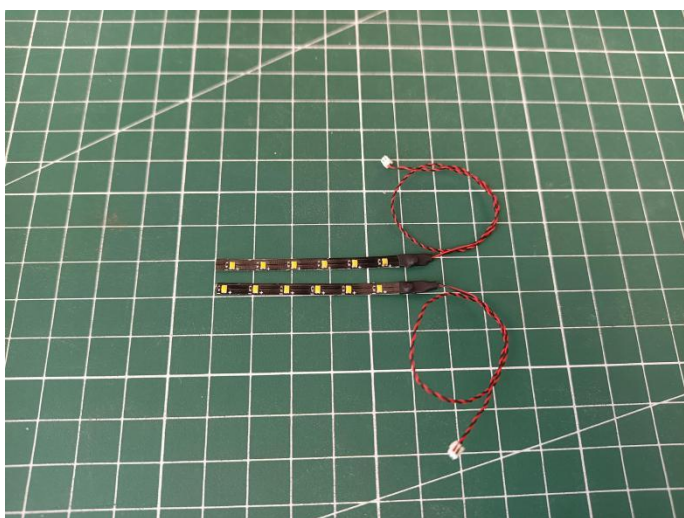
64. Turn to the front.



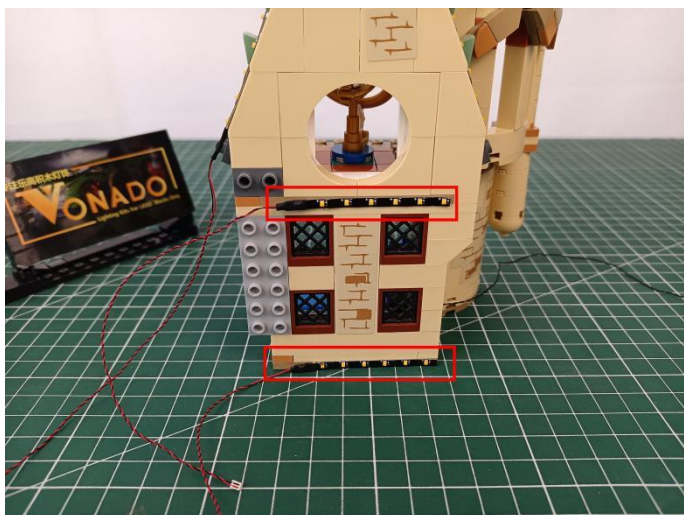
65. Stick the strip light to the following place.



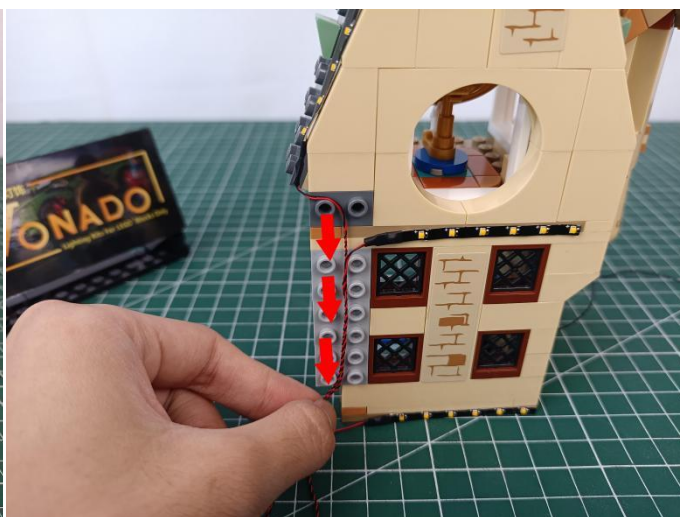
66. Take 2 warm white 15cm strip lights (with 7 lights).



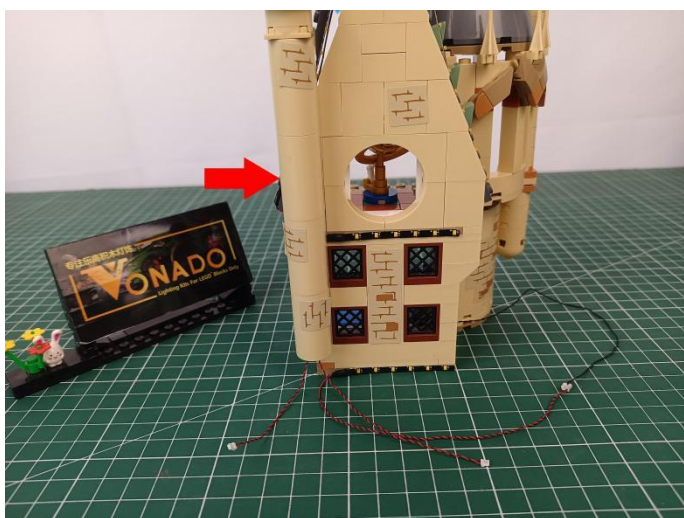
67. Stick the strip lights to the following places.



68. Take the following 2 cables, place them as per below.



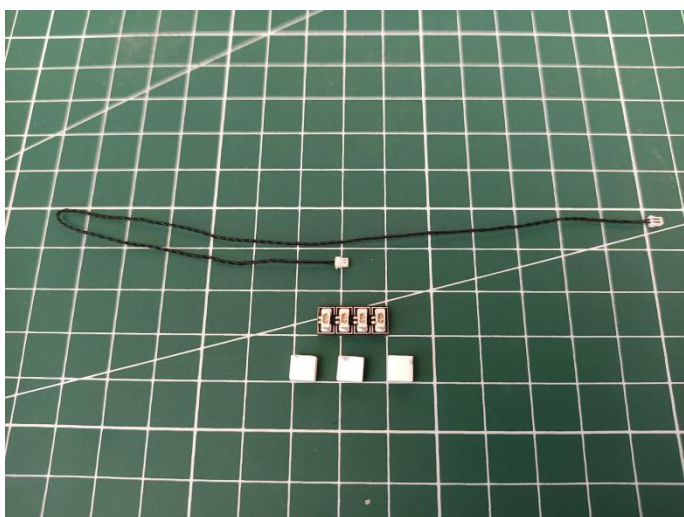
69. Reconnect the pillar.



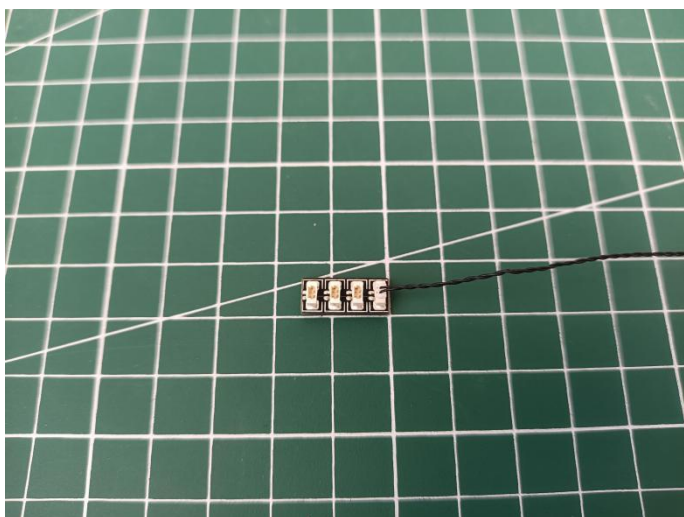
70. Turn to the side and turn it over.



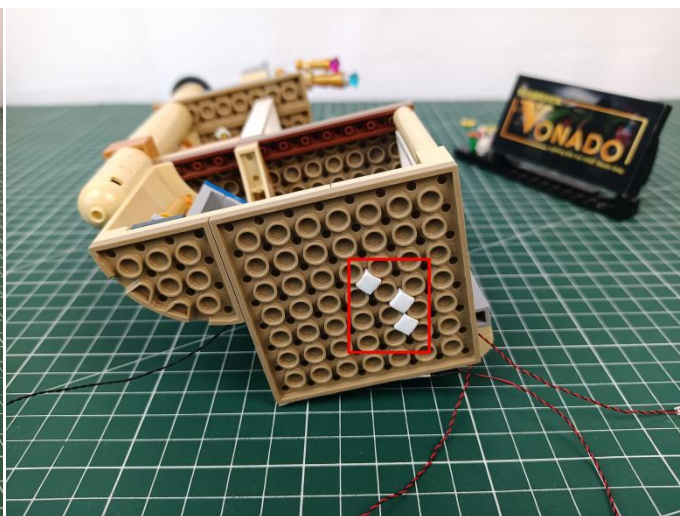
71. Take a 20cm connecting cable, a 4-port expansion board, 3 adhesive squares.



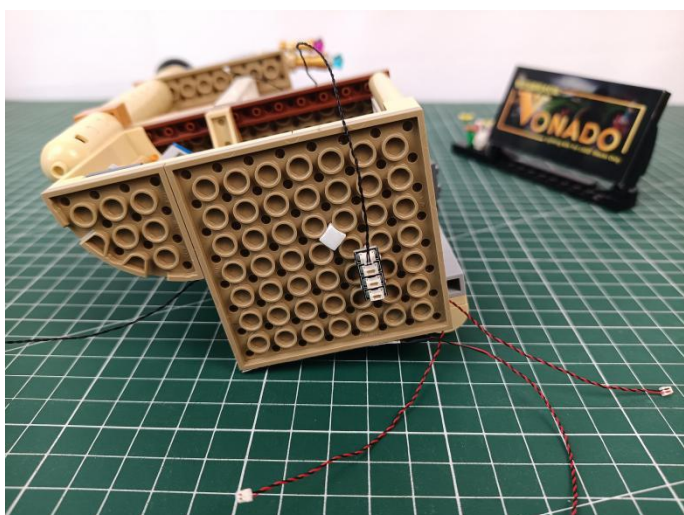
72. Assemble them as per below.



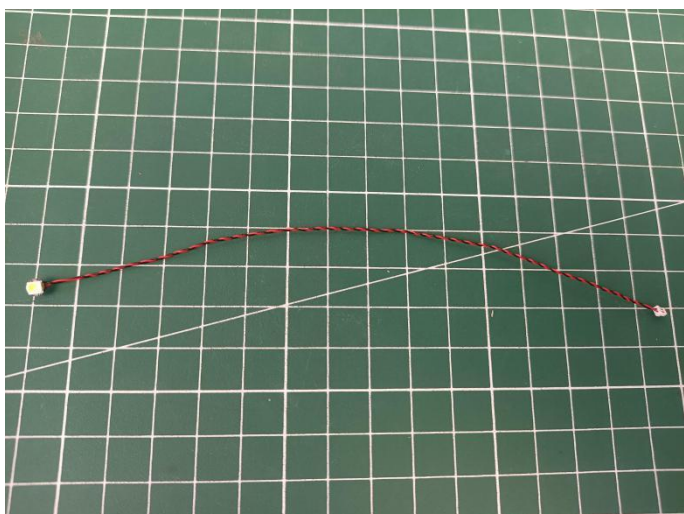
73. Turn to the following place, stick the adhesive squares as per below.



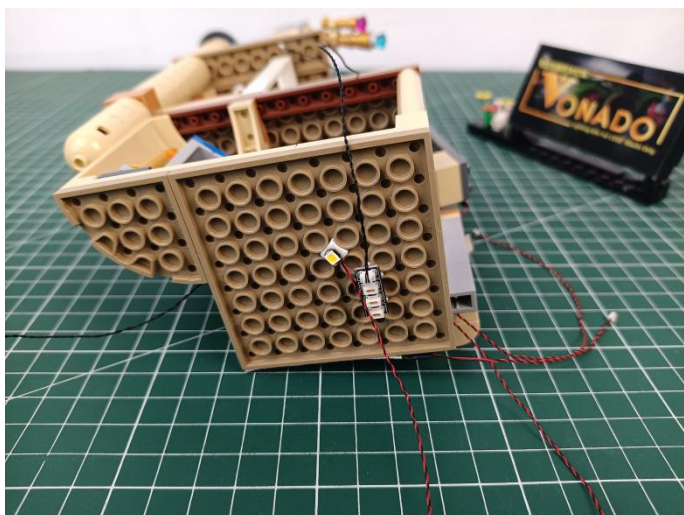
74. Stick the expansion board to the adhesive squares.



75. Take a 15cm head light.



76. With lighting part facing up, stick the light to the adhesive square.



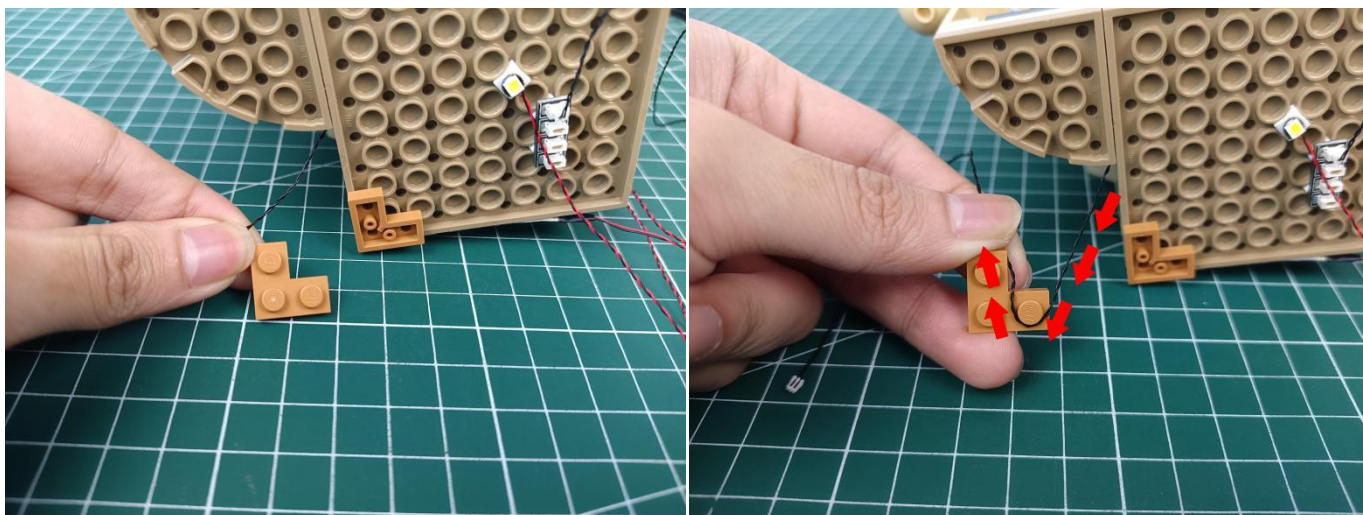
77. Take the 2 part, remove the following 4 pieces.



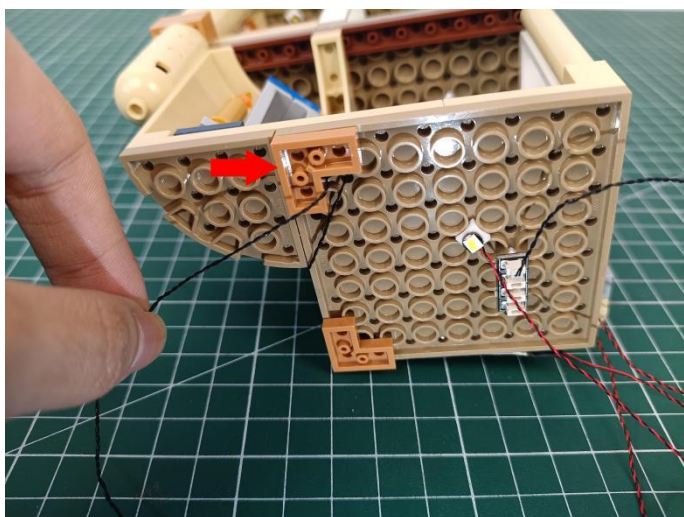
78. Connect the piece to the following place on the 1 part.



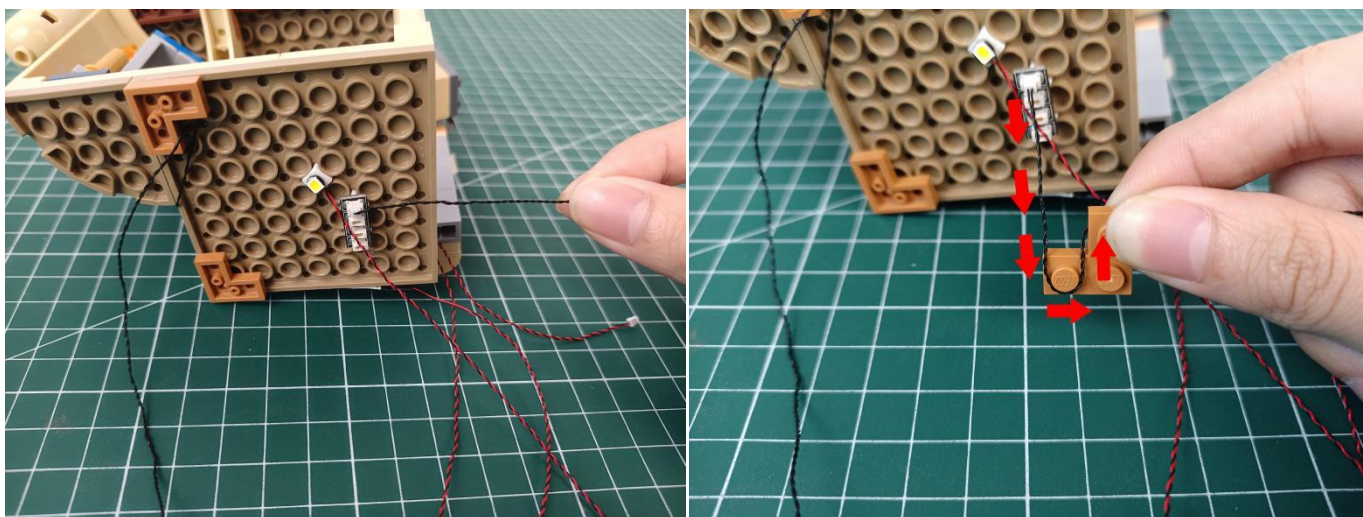
79. Take the following cable, wind it around the piece.



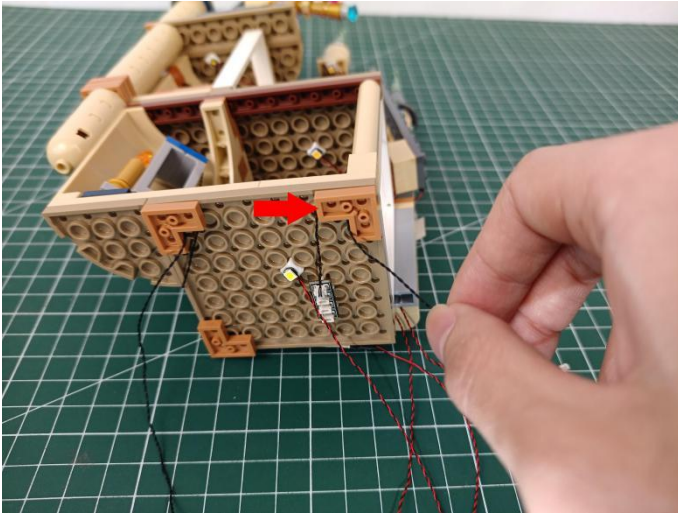
80. Connect the piece to the following place.



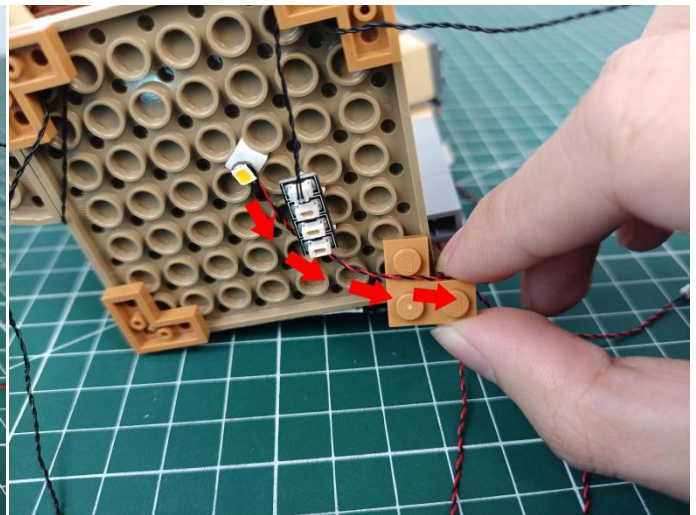
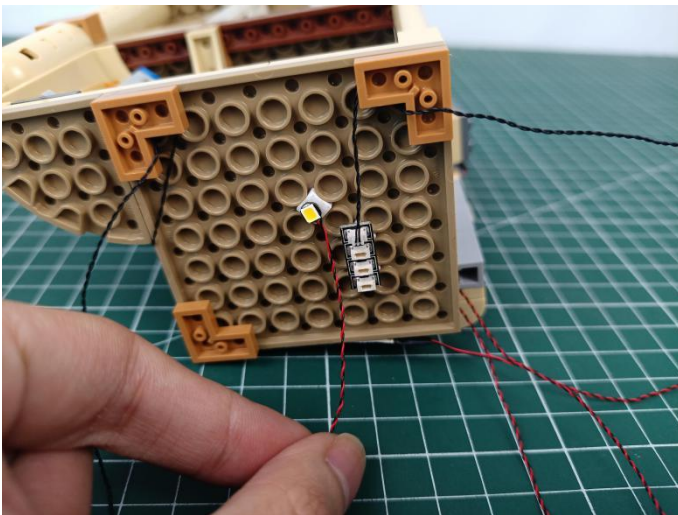
81. Take the cable from the expansion board, and wind it around the following piece.



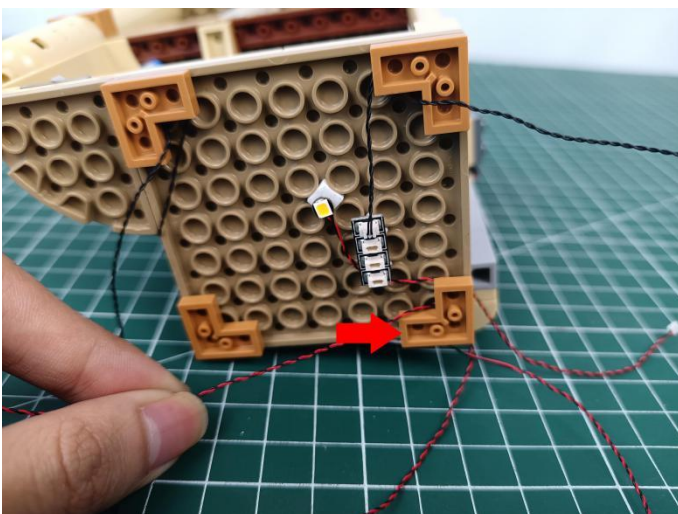
82. And connect the piece to the following place.



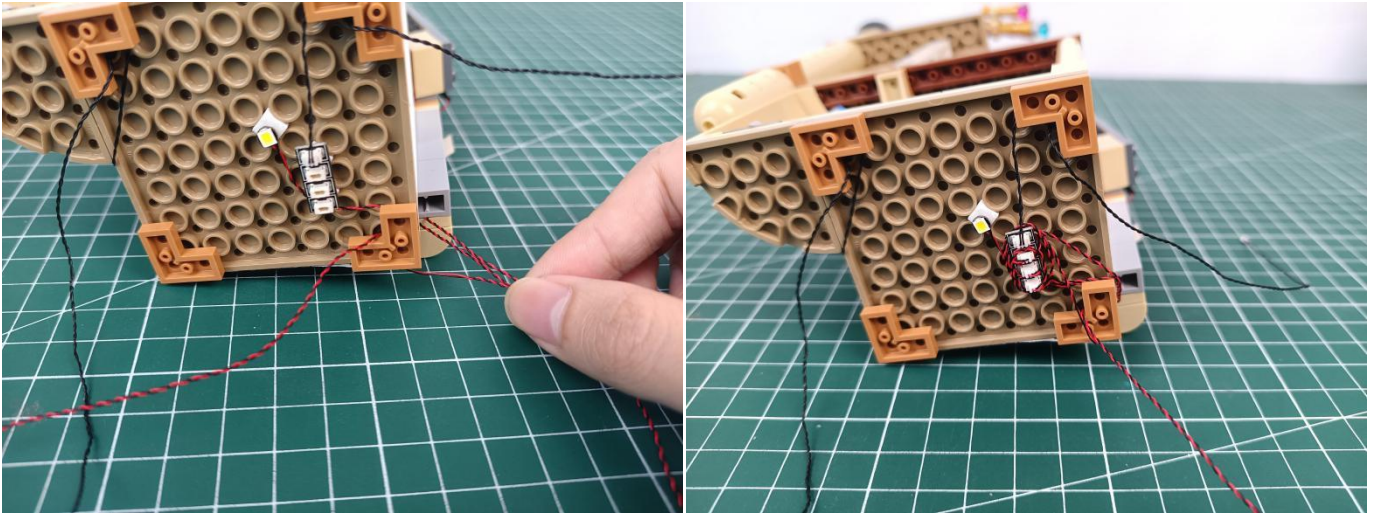
83. Take the cable of the head light, place it as per below.



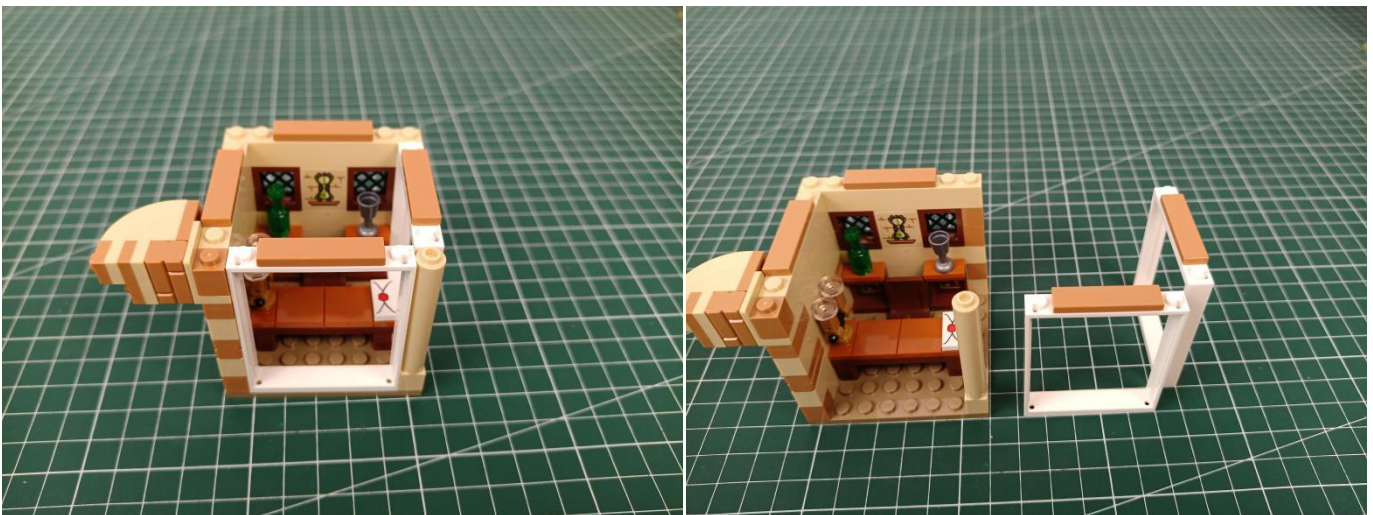
84. Connect the piece to the following place.



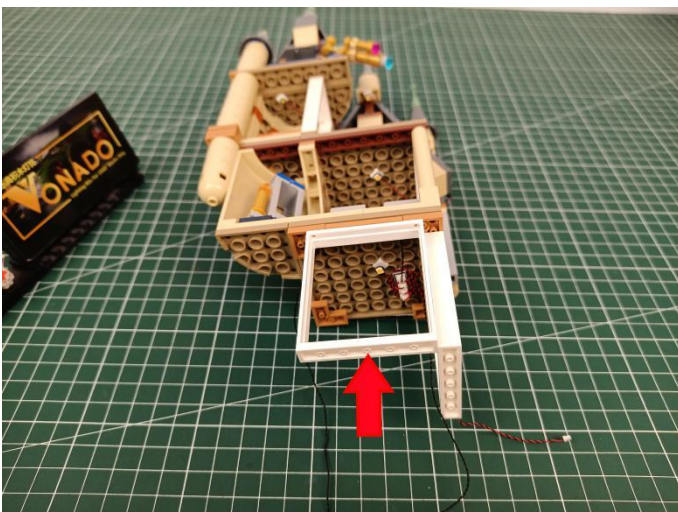
85. Take the 3 cables from the strip lights, connect them to the expansion board, and tuck excess cables around the expansion board.



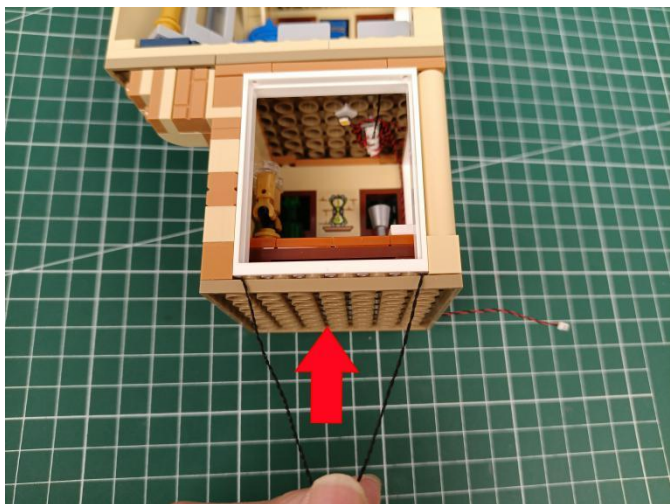
86. Remove the following 2 pieces from the 2 part.



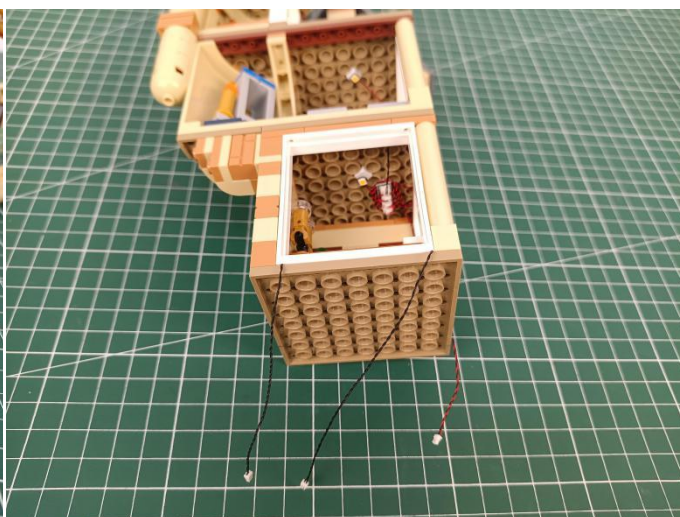
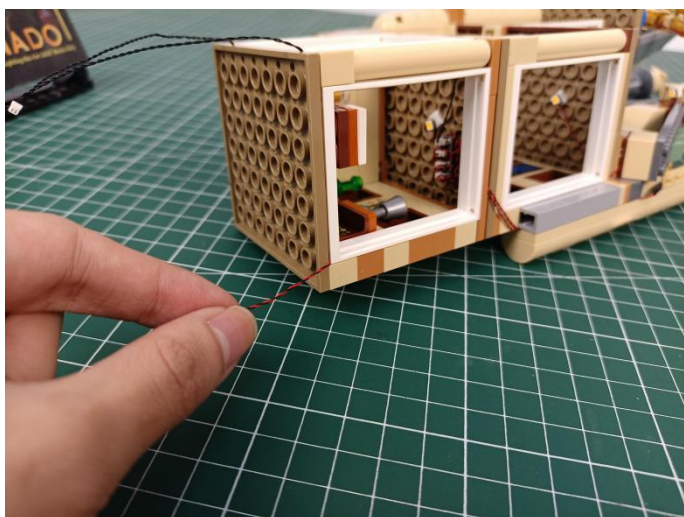
87. Connect the pieces removed to the 1 part.



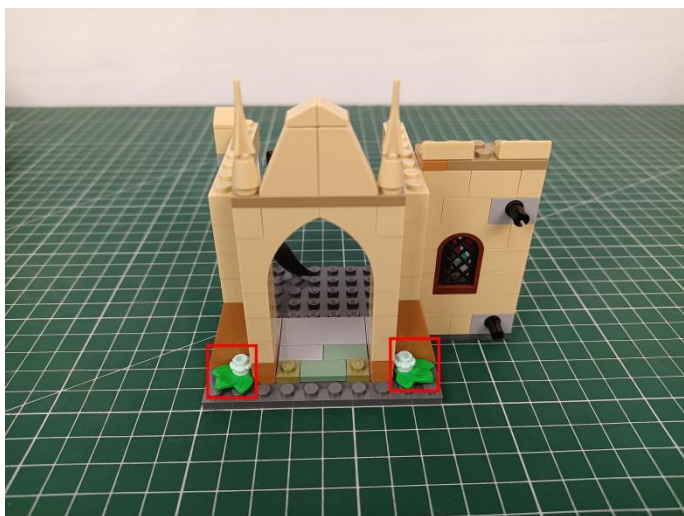
88. Connect the 2 part to the 1 part as per below.



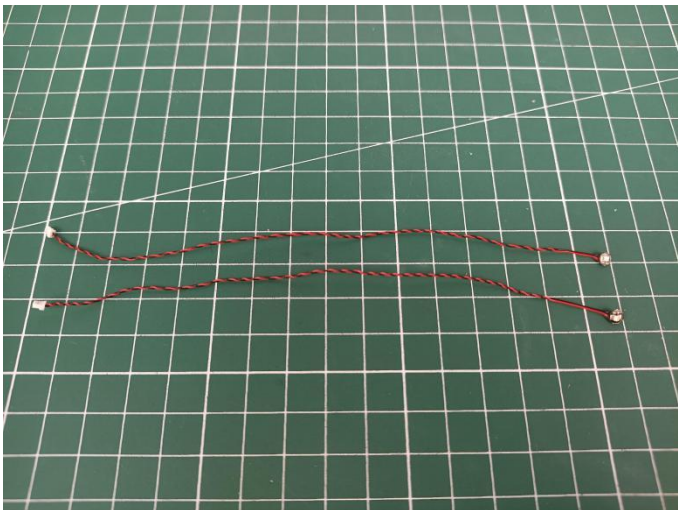
89. Place the cables as per below.



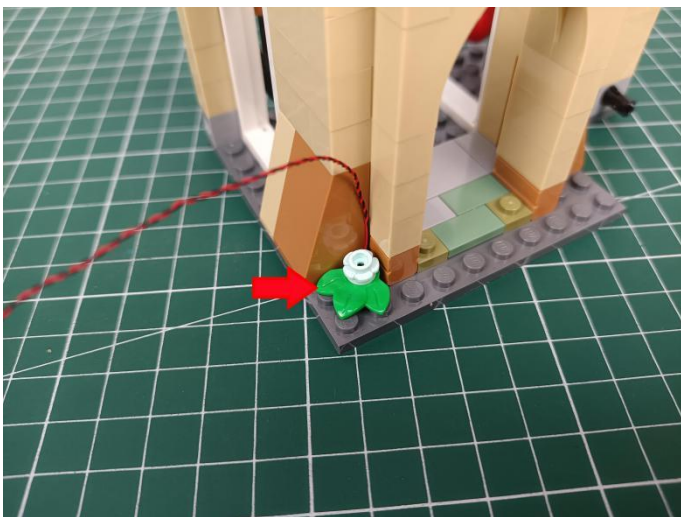
90. Remove the leaves from the 3 part.



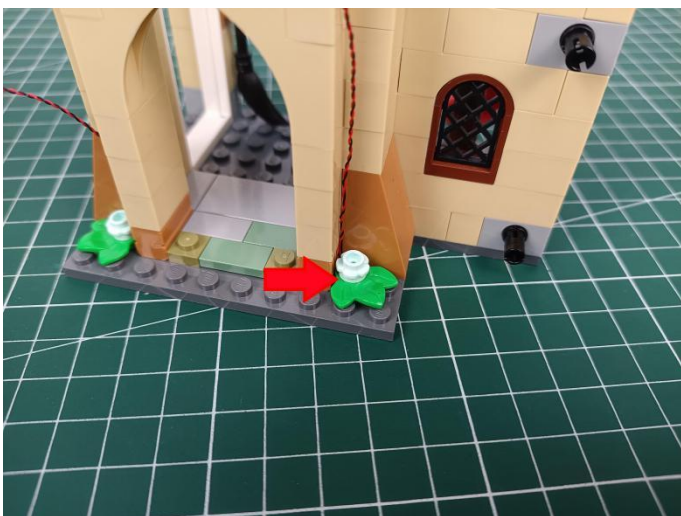
91. Take 2 green 15cm dot lights.



92. With lighting part facing up, reconnect the leaf.



93. Install the light at the other side in the same way.



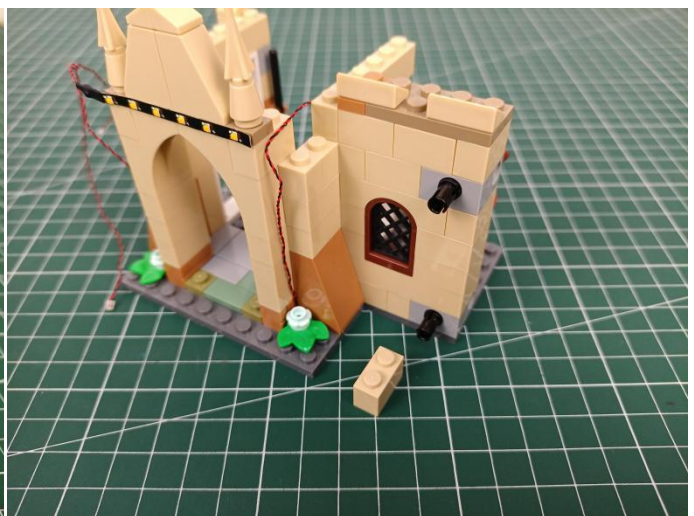
94. Take a warm white 15cm strip light (with 7 lights).



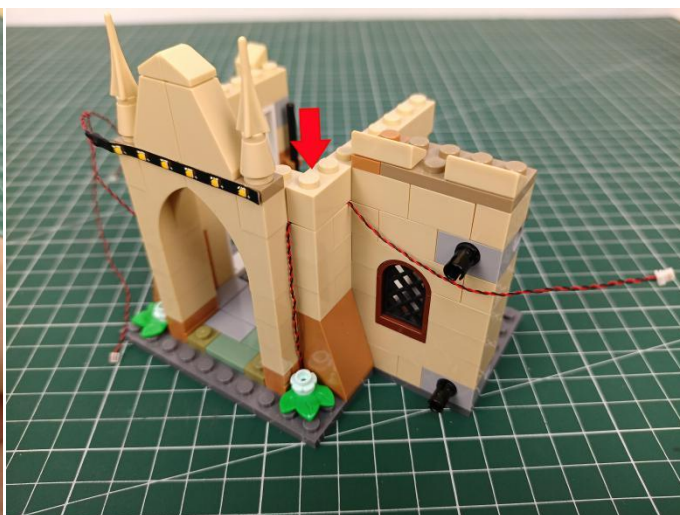
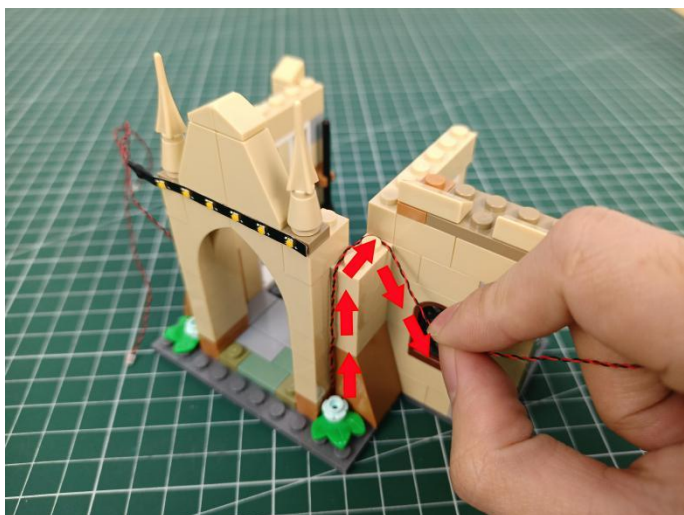
95. Stick the strip light to the following place.



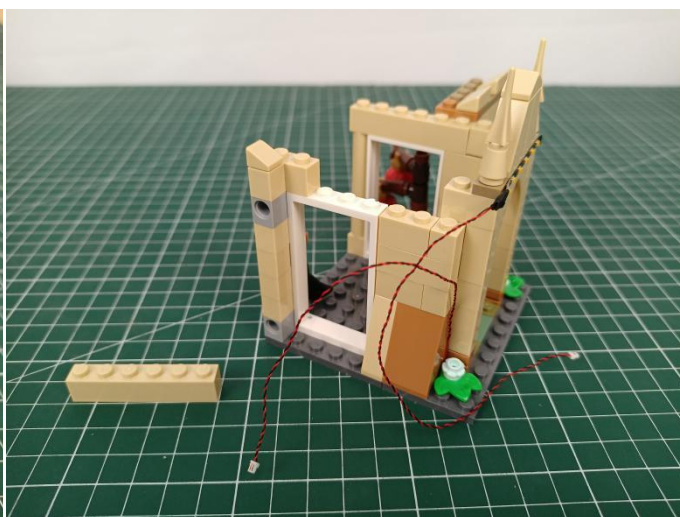
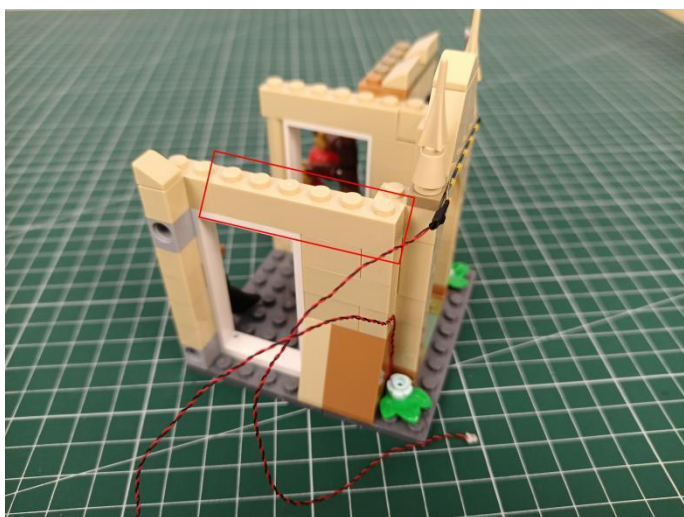
96. Turn to the right, remove the following piece.



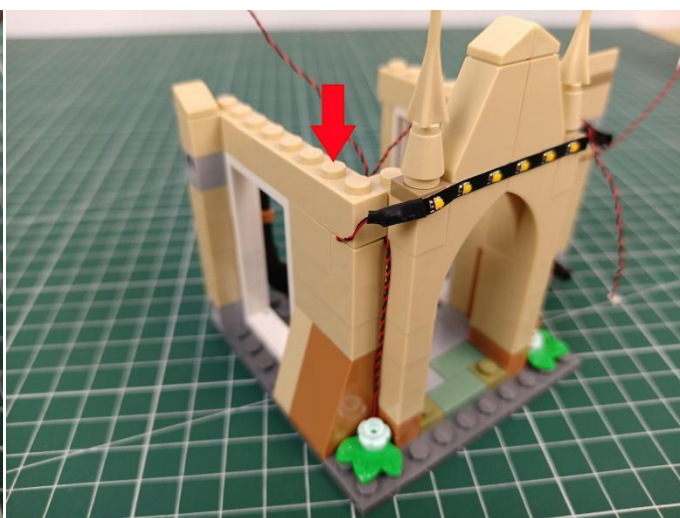
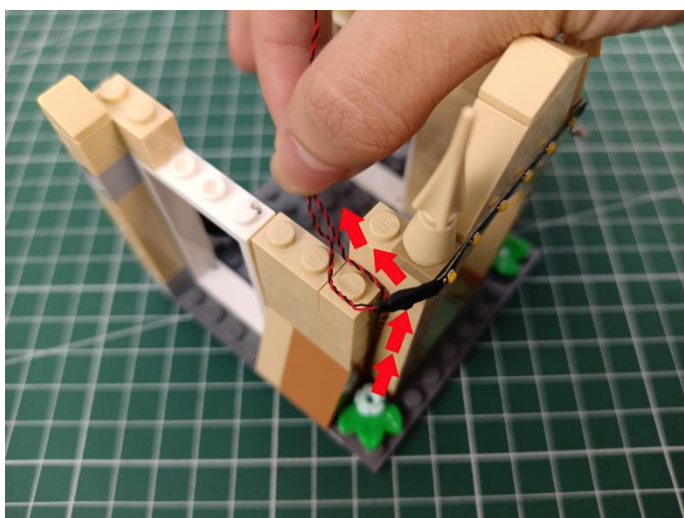
97. Place the cable as per below, reconnect the following piece.



98. Turn to the left, remove the following piece.



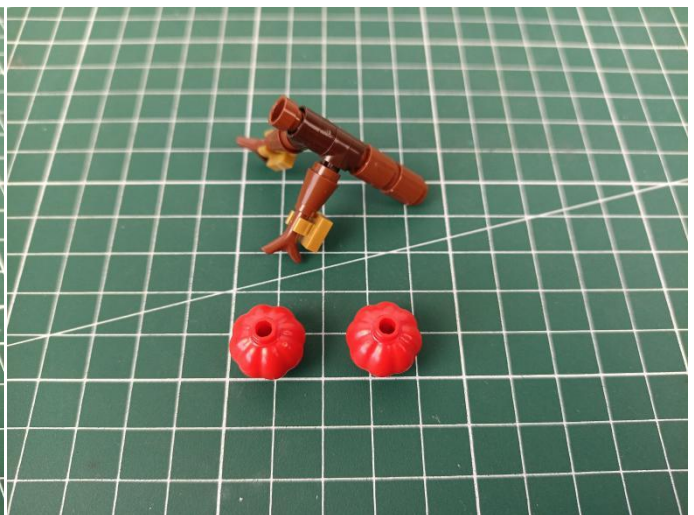
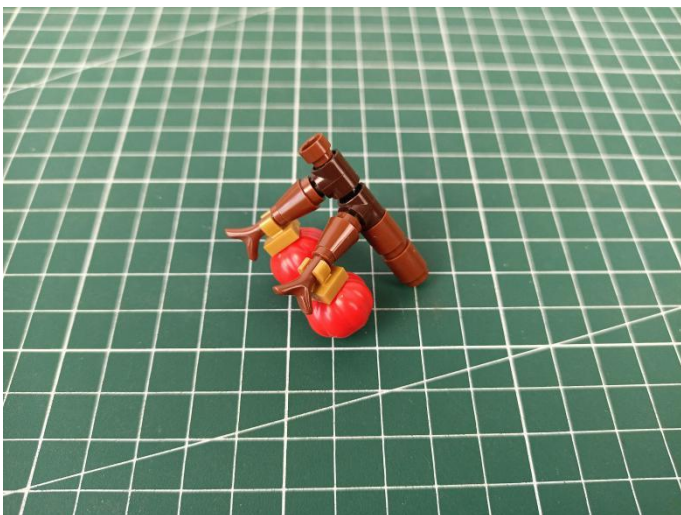
99. Place the cable as per below, reconnect the following piece.



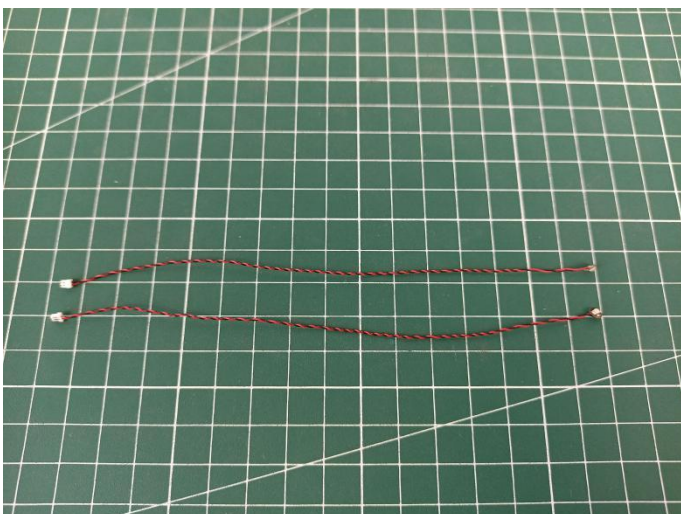
100. Turn to the back, remove the lantern piece.



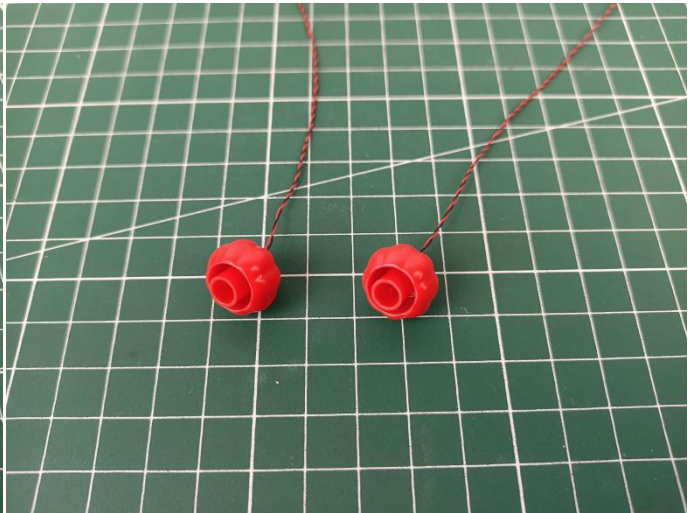
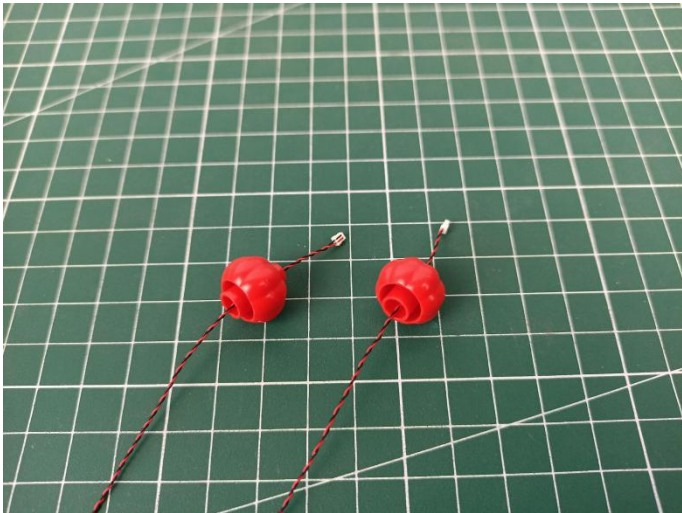
101. Remove the lanterns.



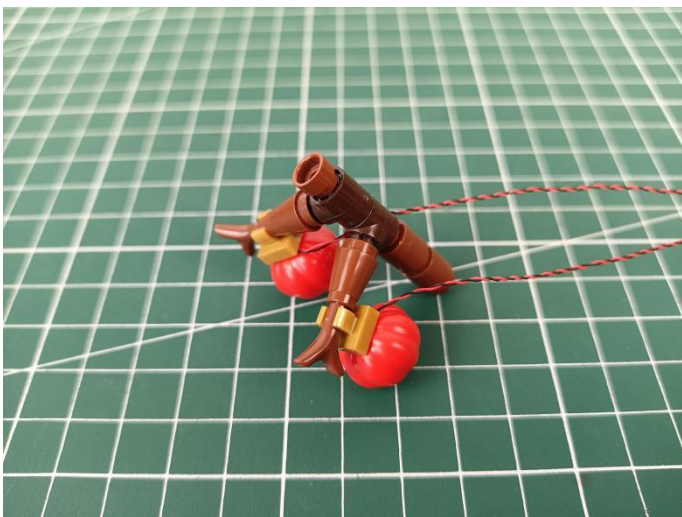
102. Take 2 red 15cm dot lights.



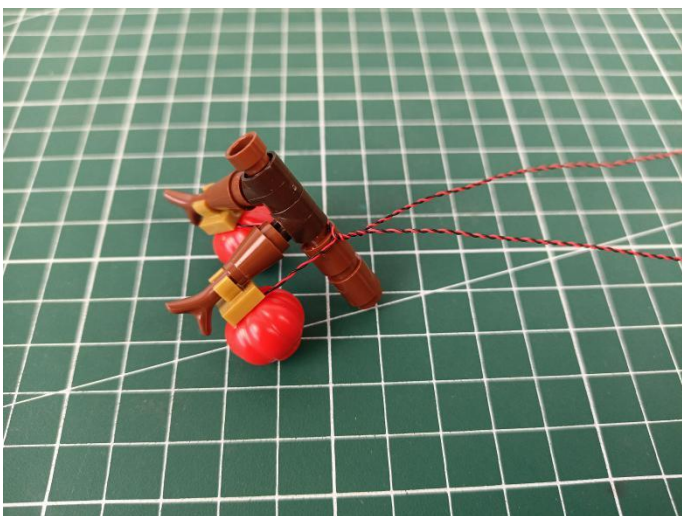
103. Thread the cables through the lanterns, tighten the cables up.



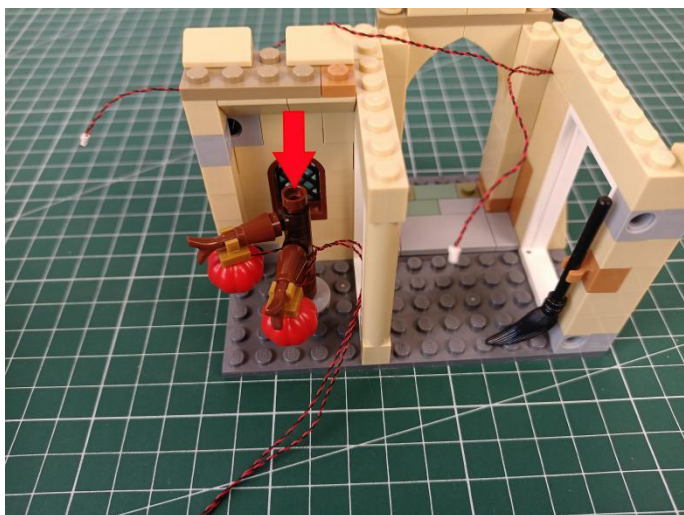
104. Reconnect the lights.



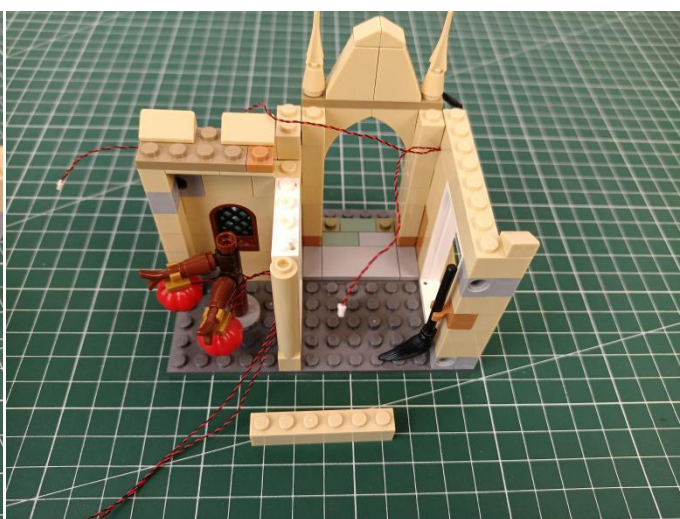
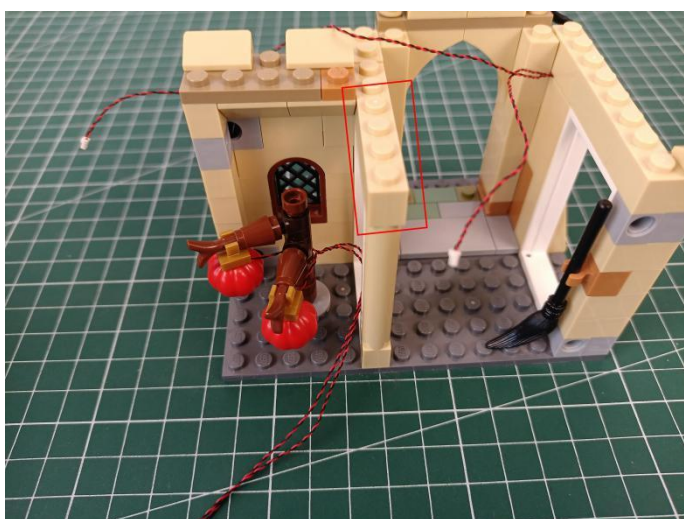
105. Group the cables together.



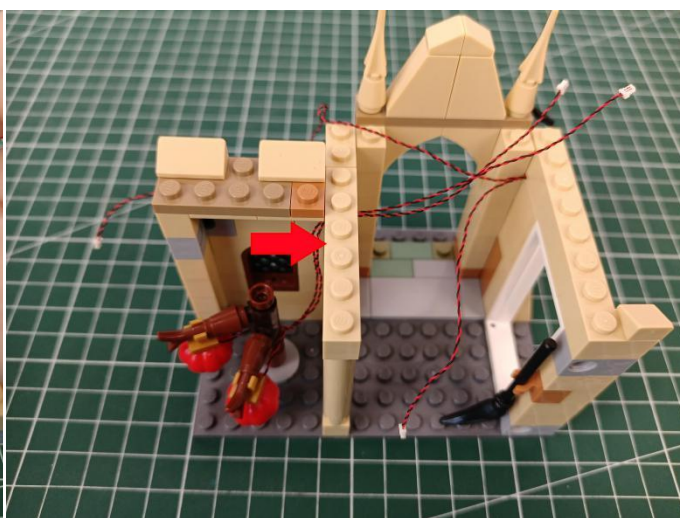
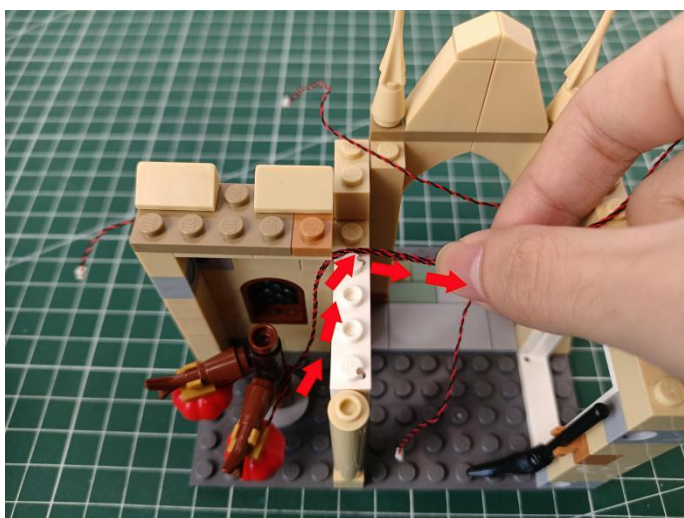
106.Reconnect the lantern piece.



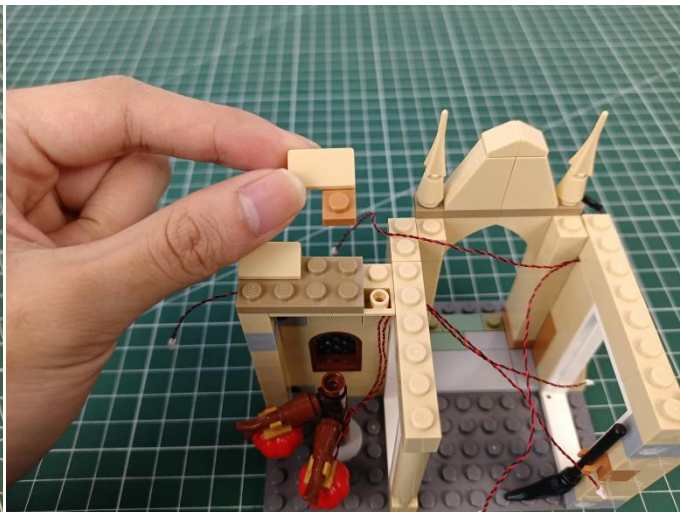
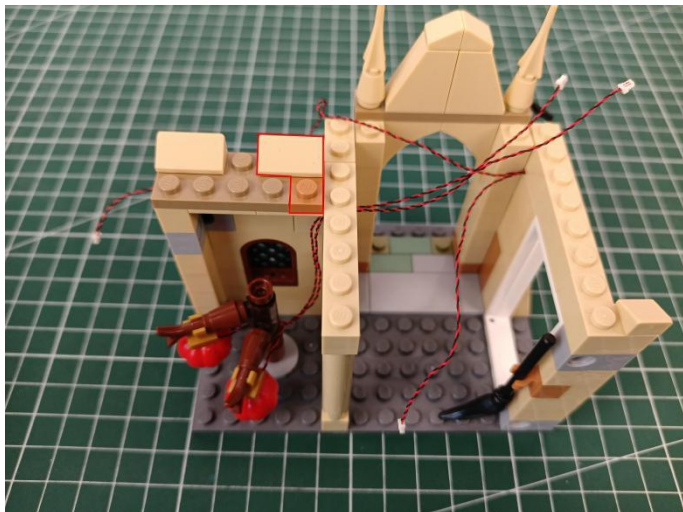
107.Remove the following piece.



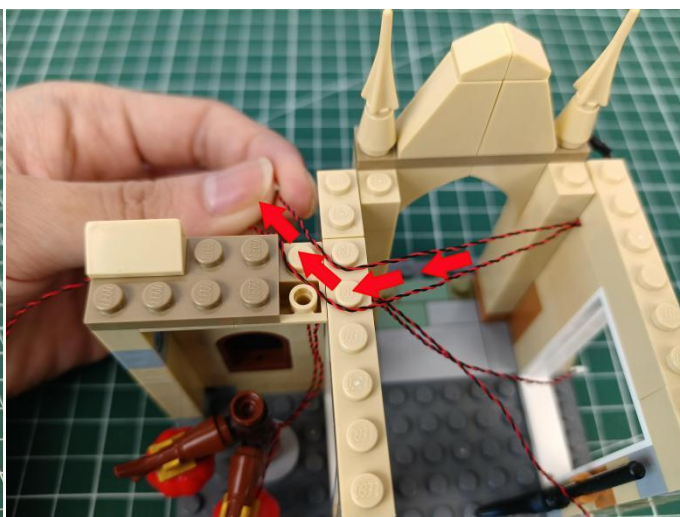
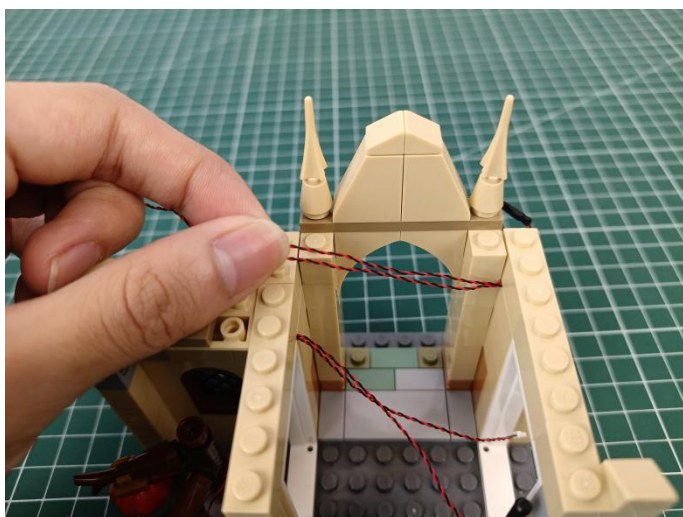
108.Place the cables as per below, reconnect the following piece.



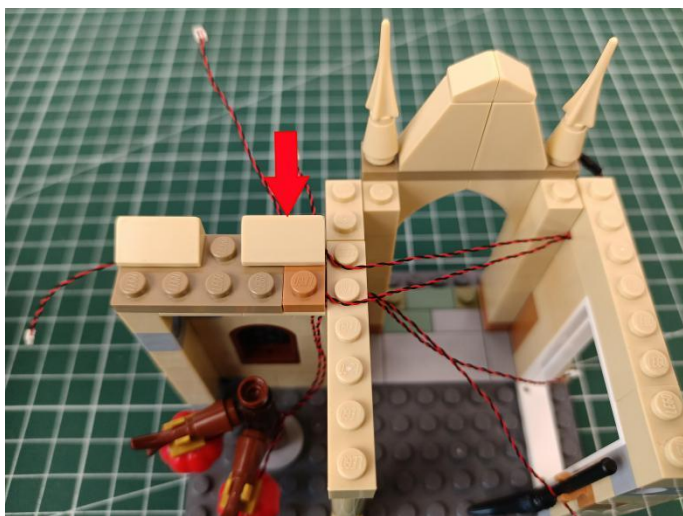
109. Remove the following piece.



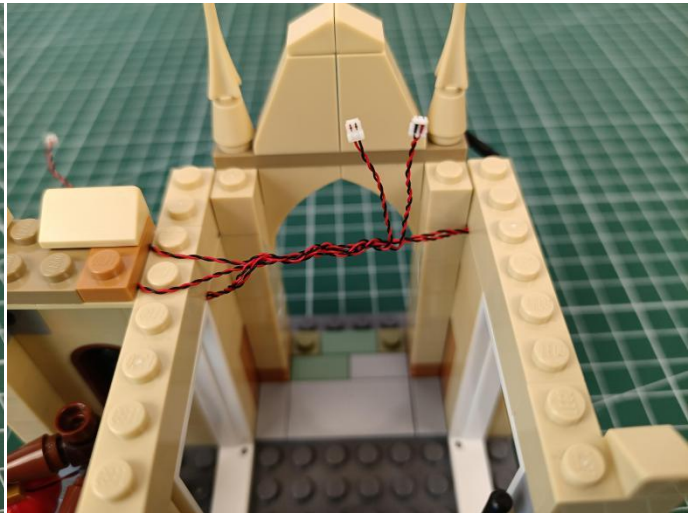
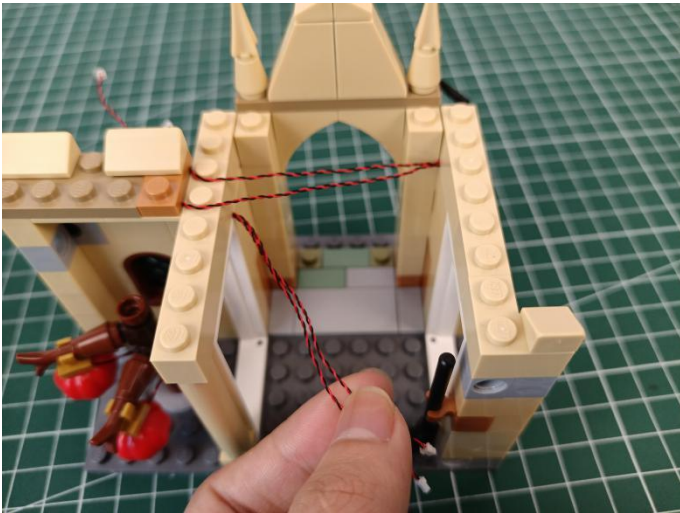
110. Take the following 2 cables, place them as per below.



111. Reconnect the piece.



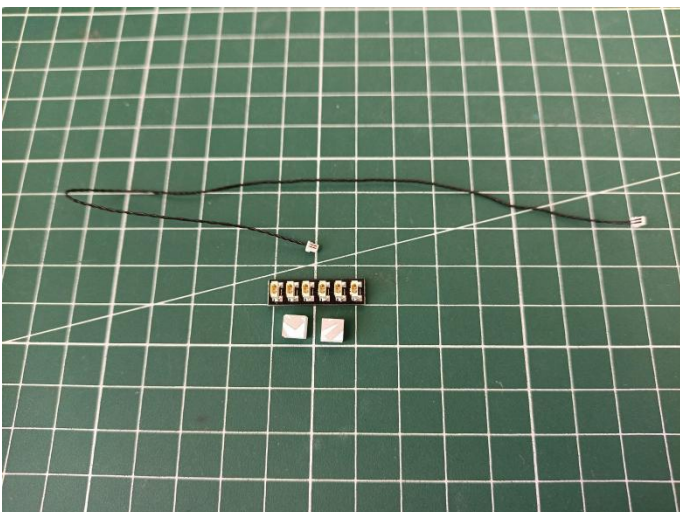
112. Take the cables from the lanterns, wind them as per below.



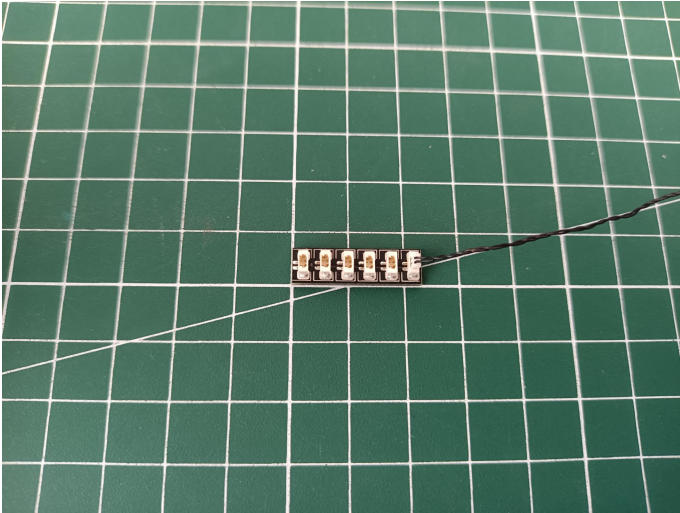
113. Take the following piece.



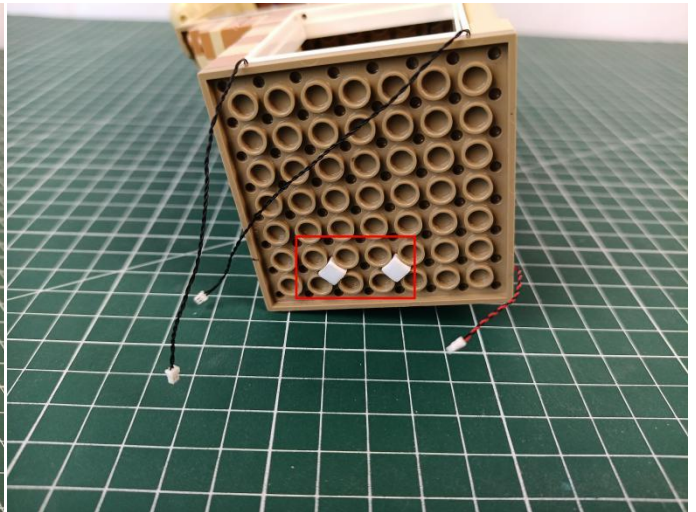
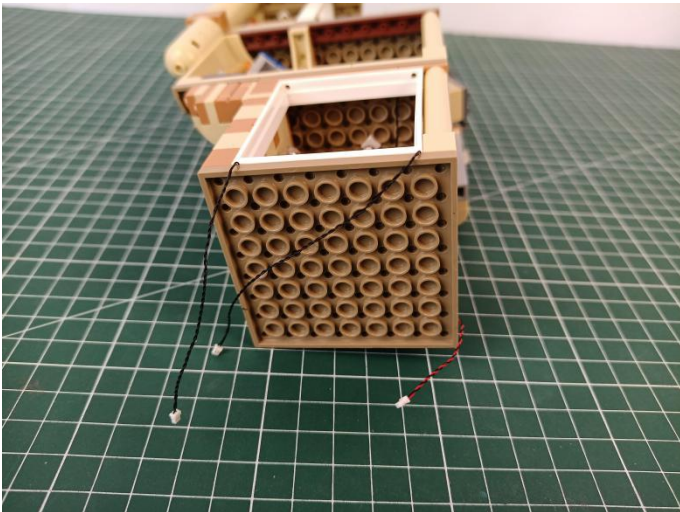
114. Take a 20cm connecting cable, a 6-port expansion board, 2 adhesive squares.



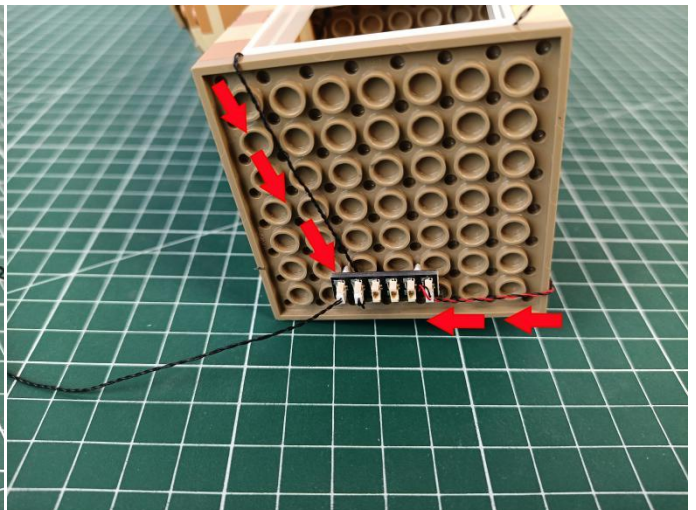
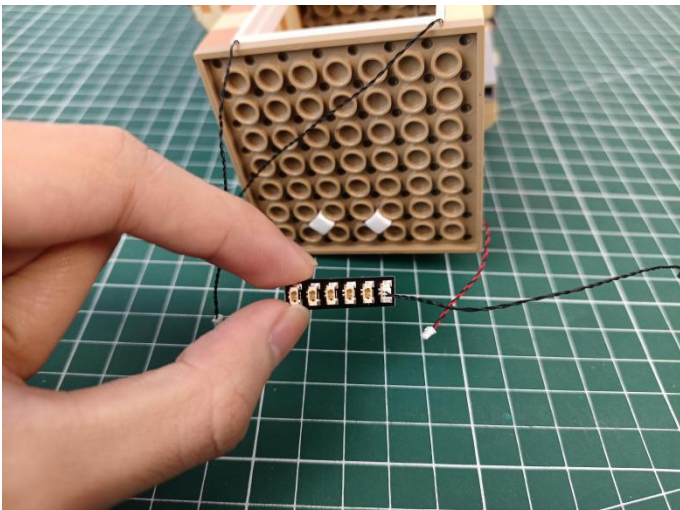
115. Assemble them as per below.



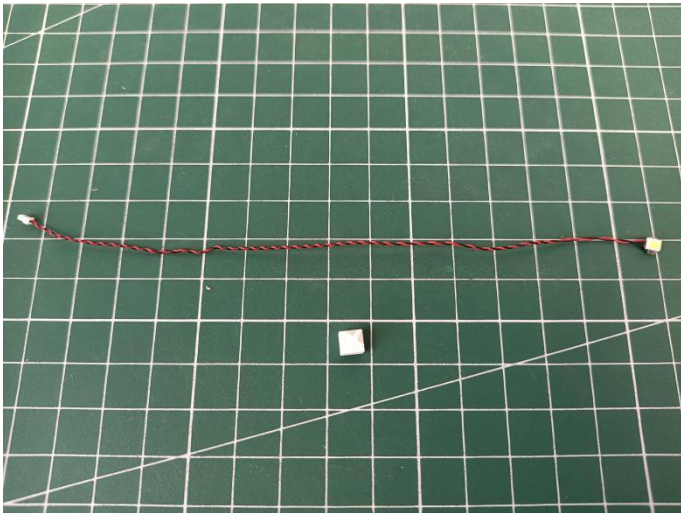
116. Turn to the following place, stick the adhesive squares as per below.



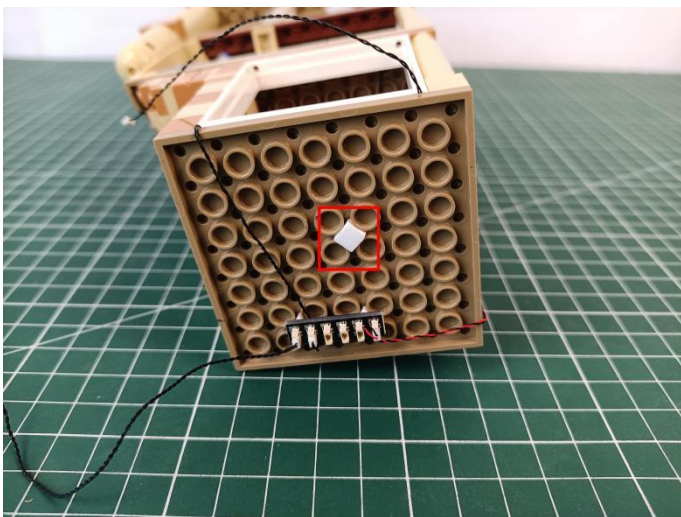
117. Connect the following 2 cables to the expansion board, and stick the expansion board to the adhesive squares.



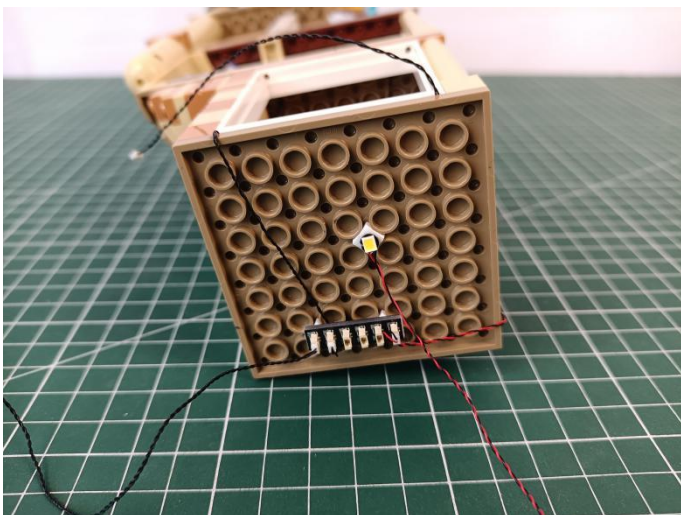
118. Take a 15cm head light, an adhesive square.



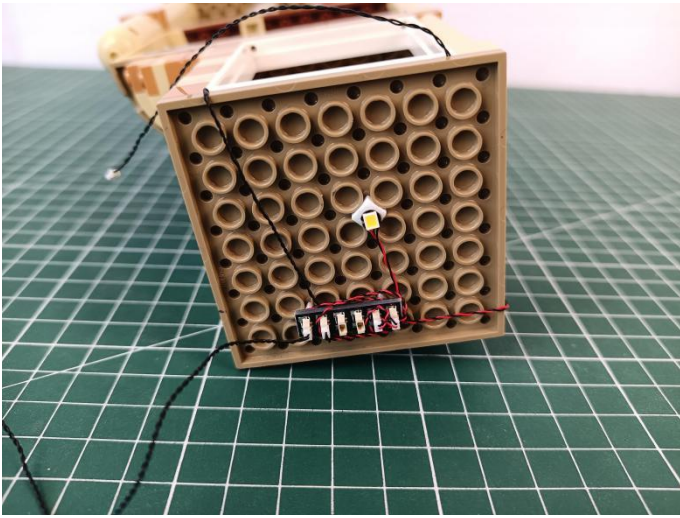
119. Stick the adhesive square to the following place.



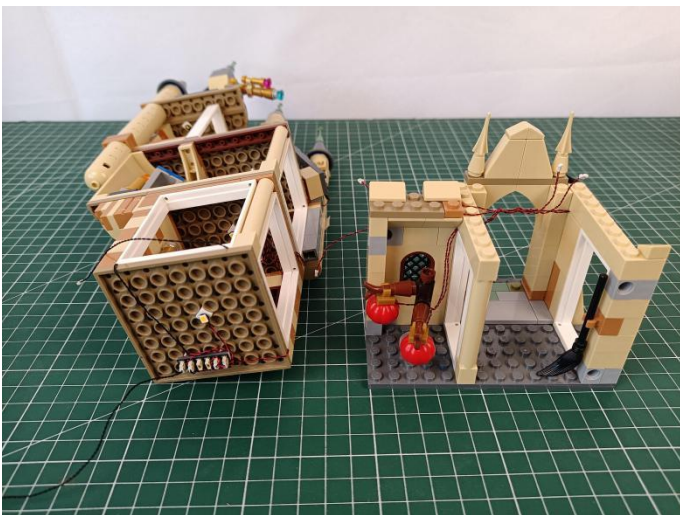
120. With lighting part facing up, stick the light to the adhesive square.



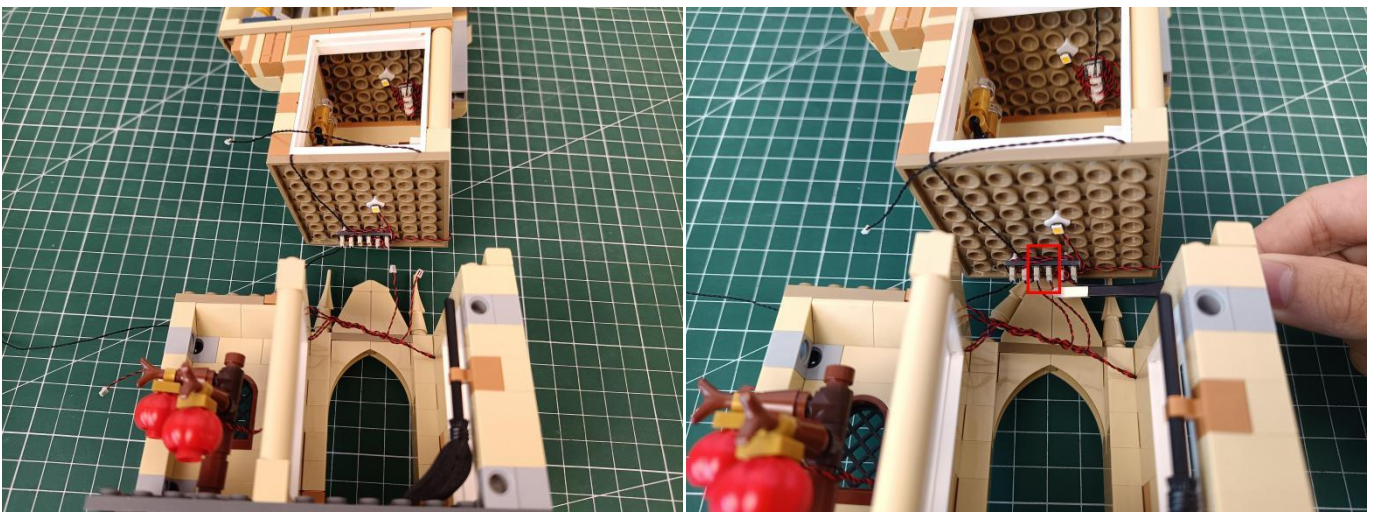
121. Connect the cable to the expansion board, and tuck excess cable around the expansion board.



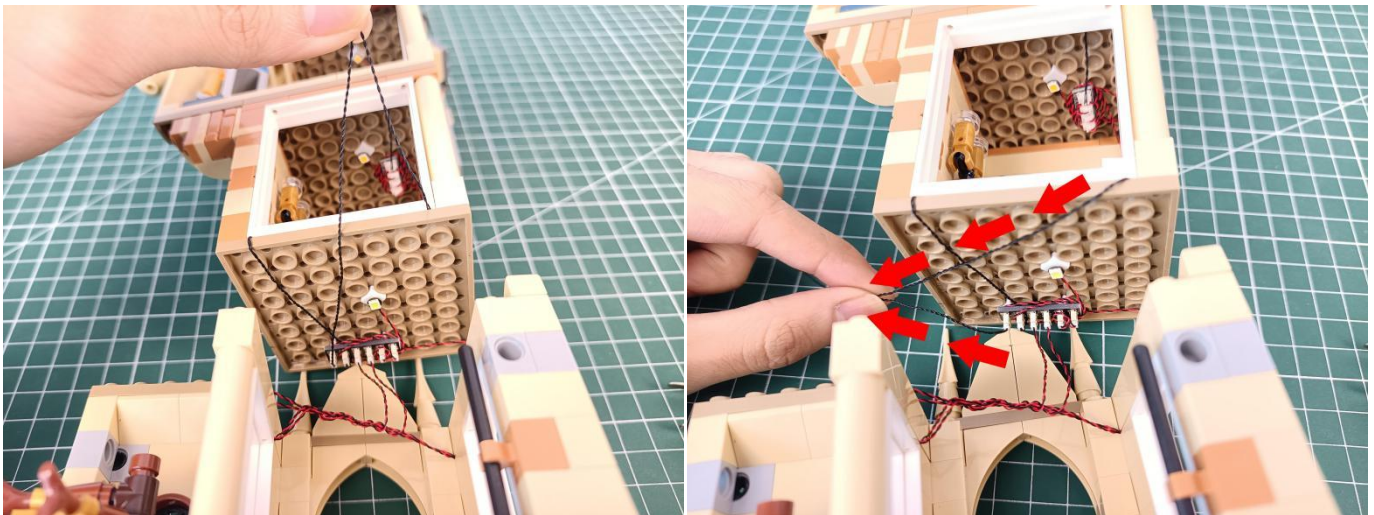
122. Take all the pieces of the A part.



123. Turn them over, and connect the cables from the lanterns to the expansion board.



124. Take the following 2 cables, place them at the side.



125. Reconnect the 3 part.



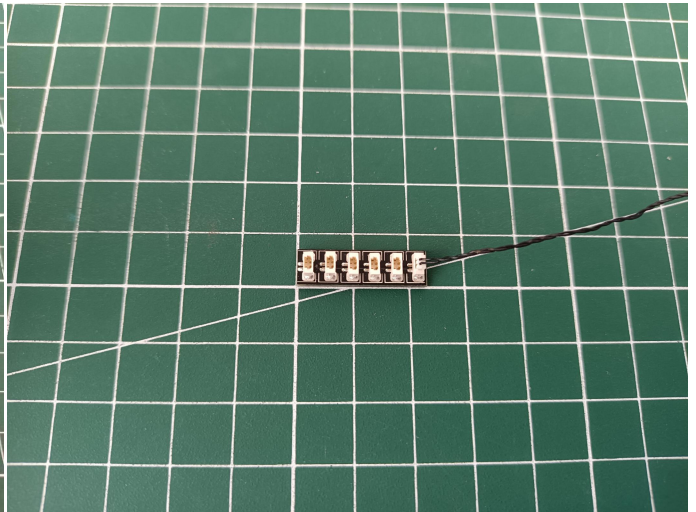
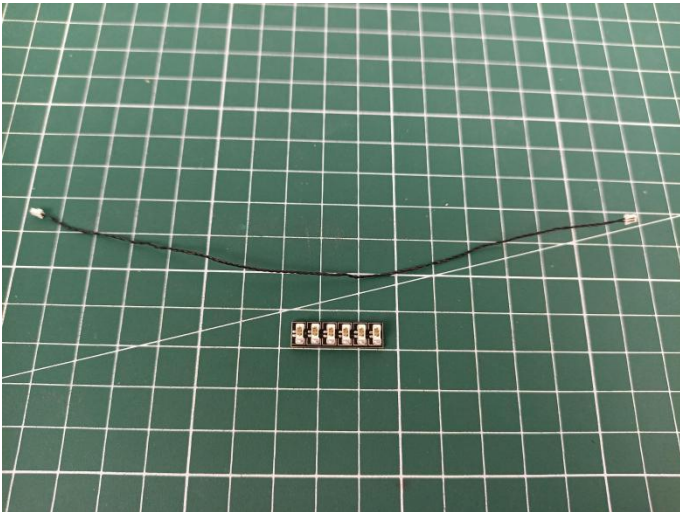
126. Turn to the front.



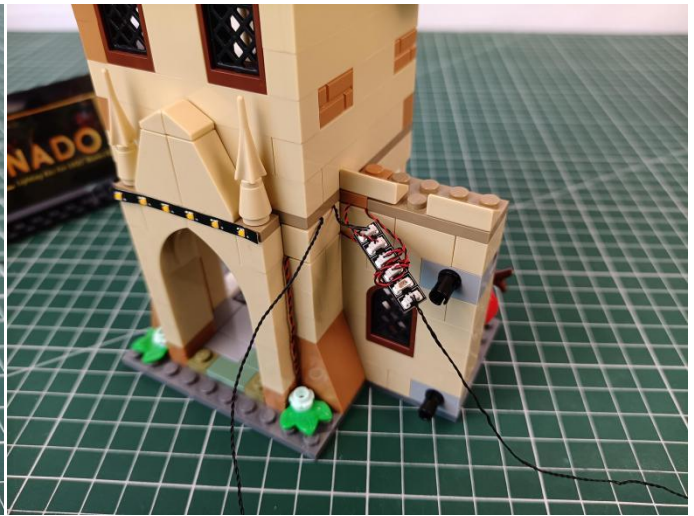
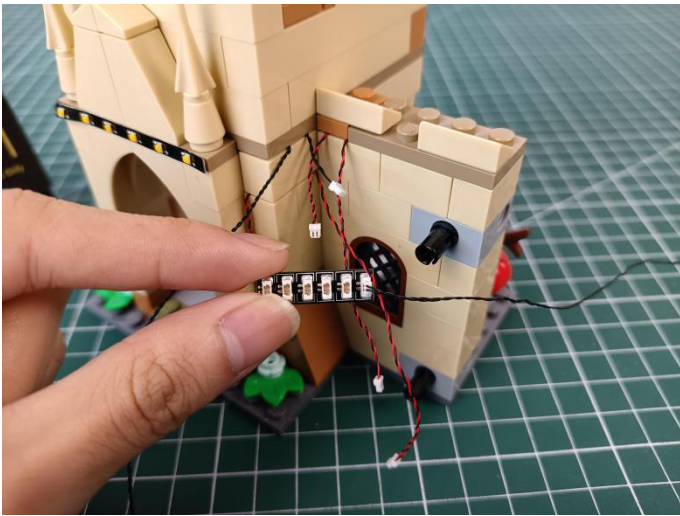
127. Turn to the right.



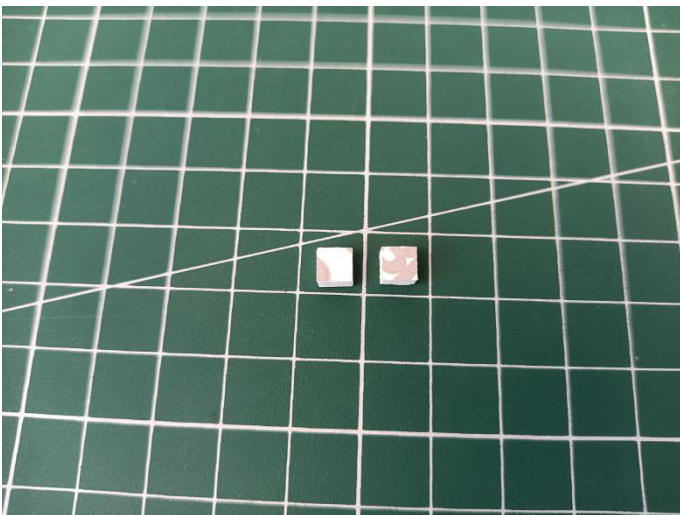
128. Take a 15cm connecting cable, a 6-port expansion board, assemble them as per below.



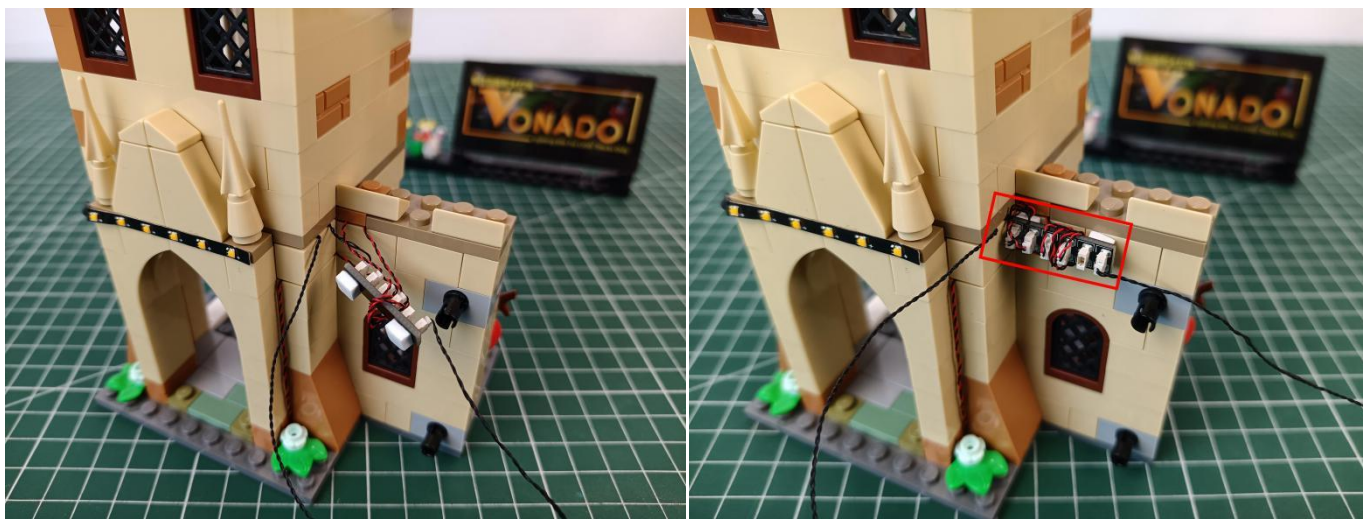
129. Connect the following 4 cables (except the 20cm connecting cable) to the expansion board, and tuck excess cables around the expansion board.



130. Take 2 adhesive squares.



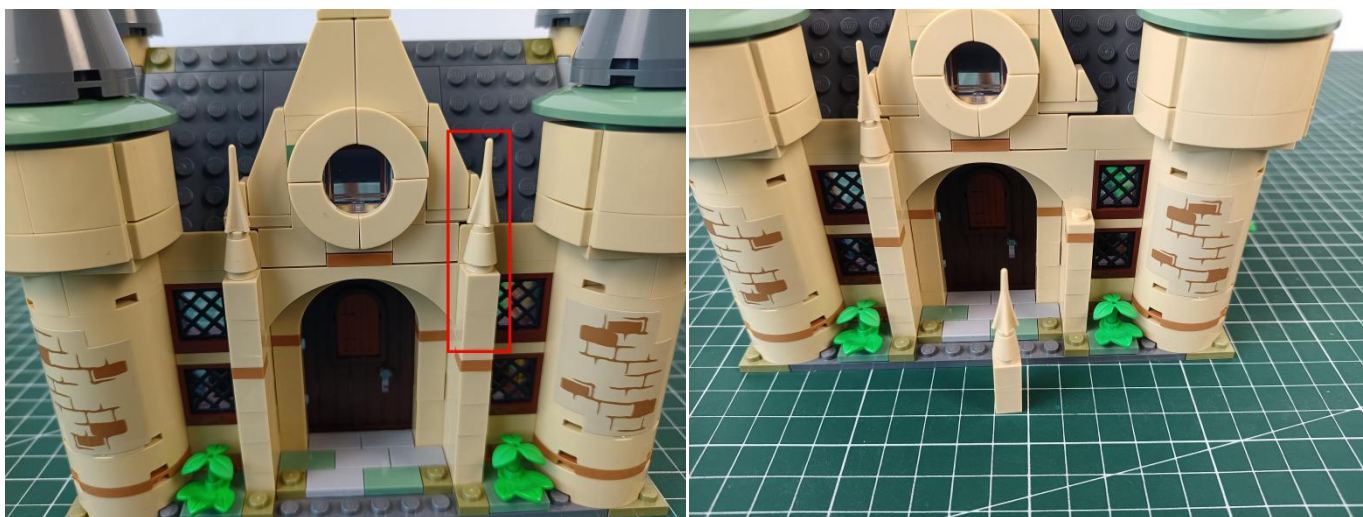
131. Stick them to the back of the expansion board, and stick the expansion board to the following place.



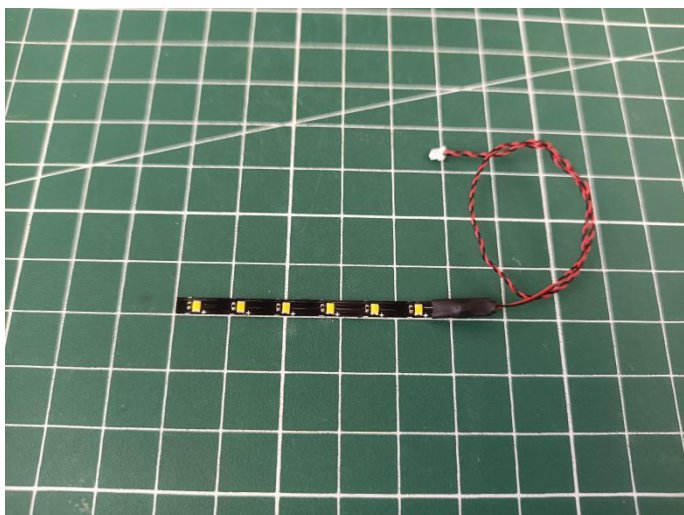
132. Continue to install lights for the B part.



133. Remove the following piece.



134. Take a warm white 15cm strip light (with 7 lights).



135. Stick the strip light to the following place.



136. Wind the cable around the following piece.



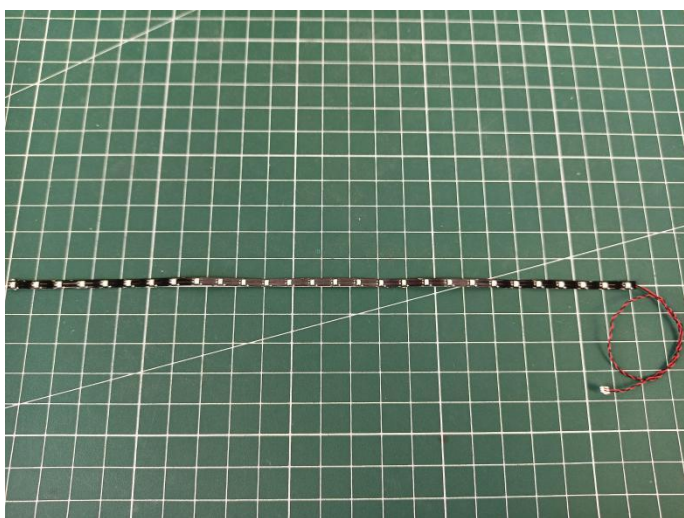
137.Reconnect the piece.



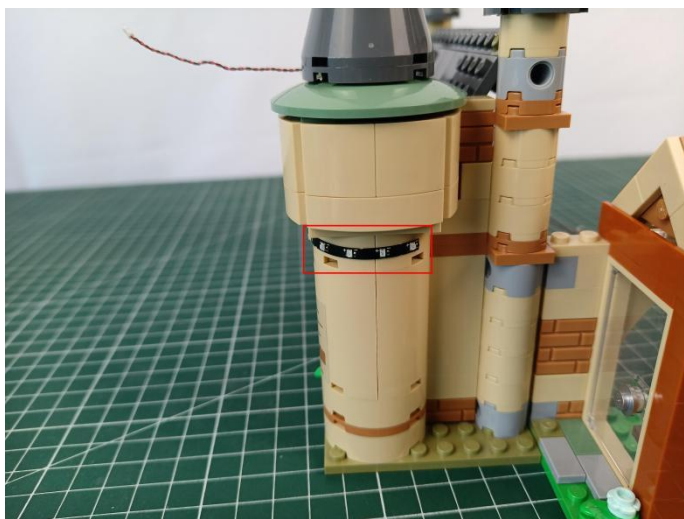
138.Remove the following pieces from both sides.



139.Take a blue 15cm strip light.



140. Stick the strip light to the following place from the left to the right.



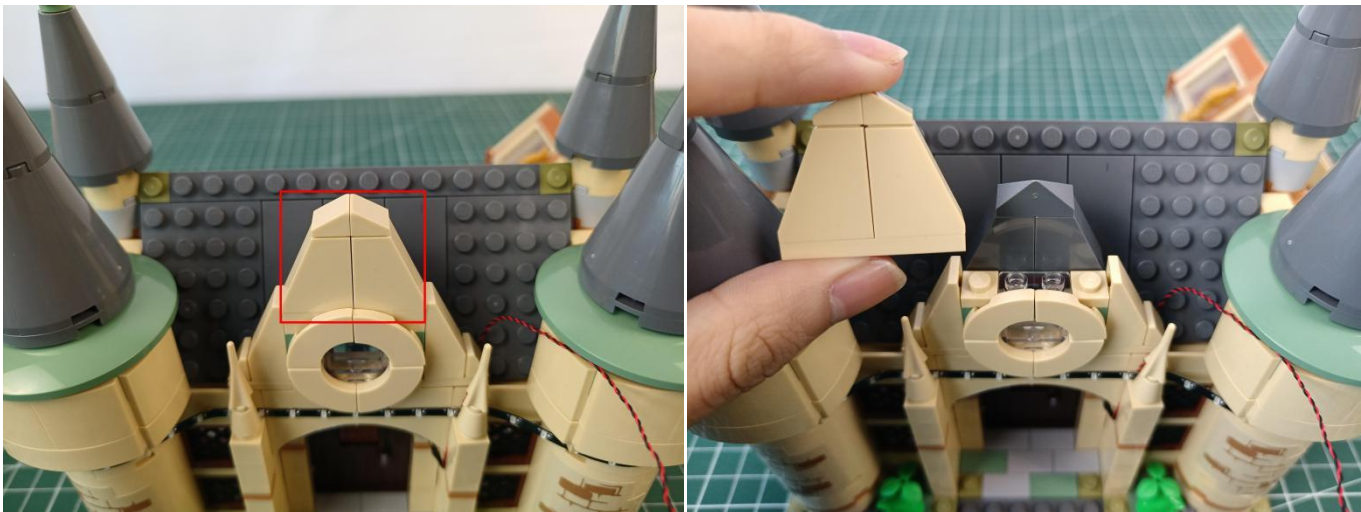
141



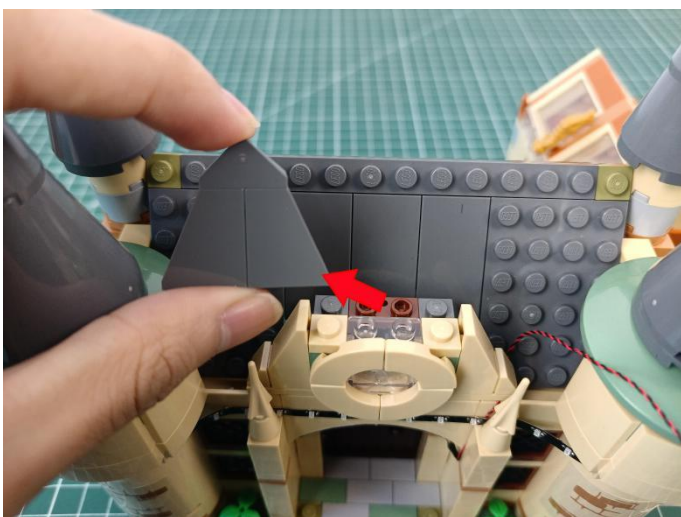
142. Reconnect the pieces.



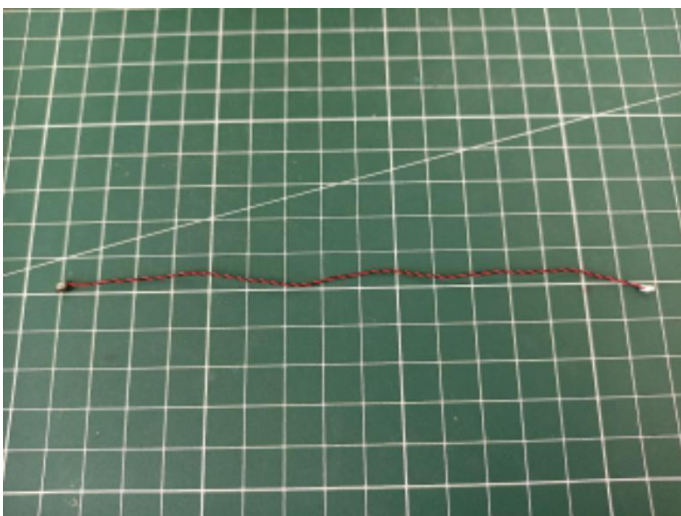
143.Remove the following beige piece.



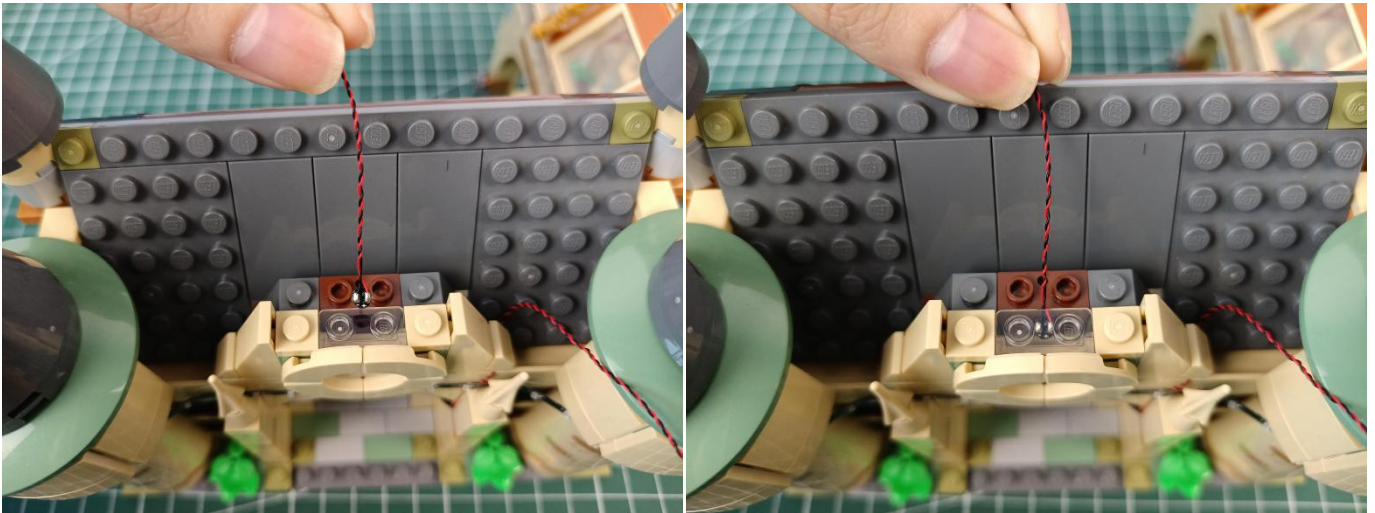
144.Remove the following gray piece.



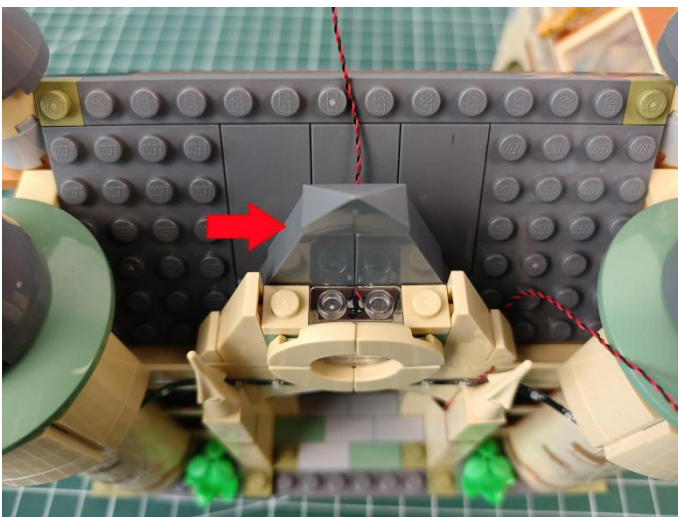
145.Take a 15cm multi colour slow flashing light.



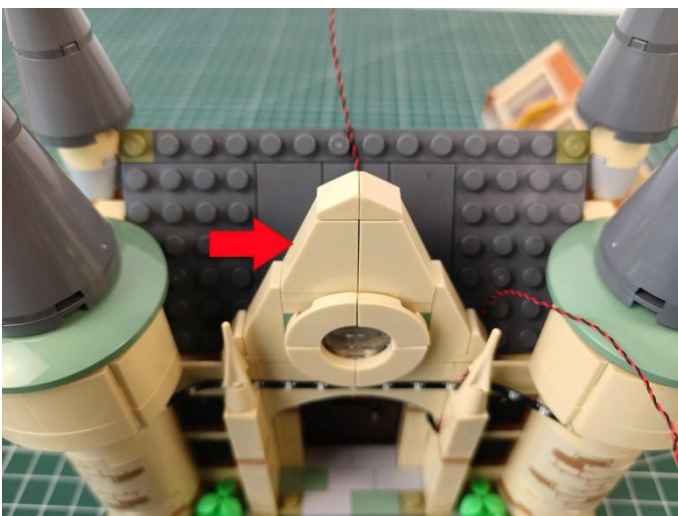
146. With lighting part facing up, place the light inside the trans piece.



147. Reconnect the gray piece.



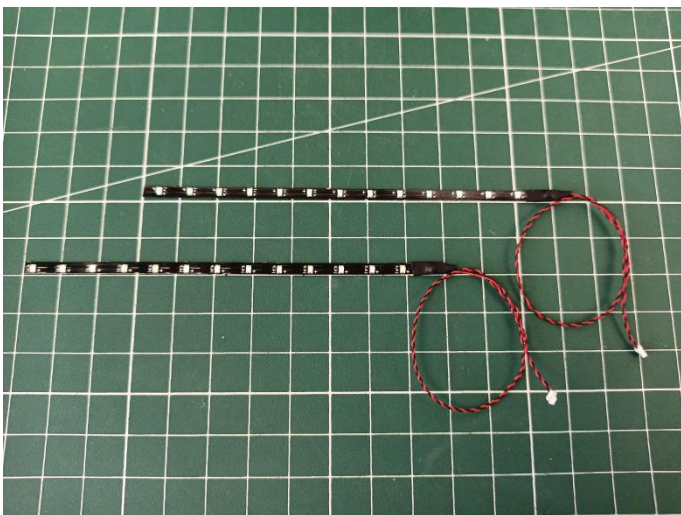
148. Continue to reconnect the beige piece.



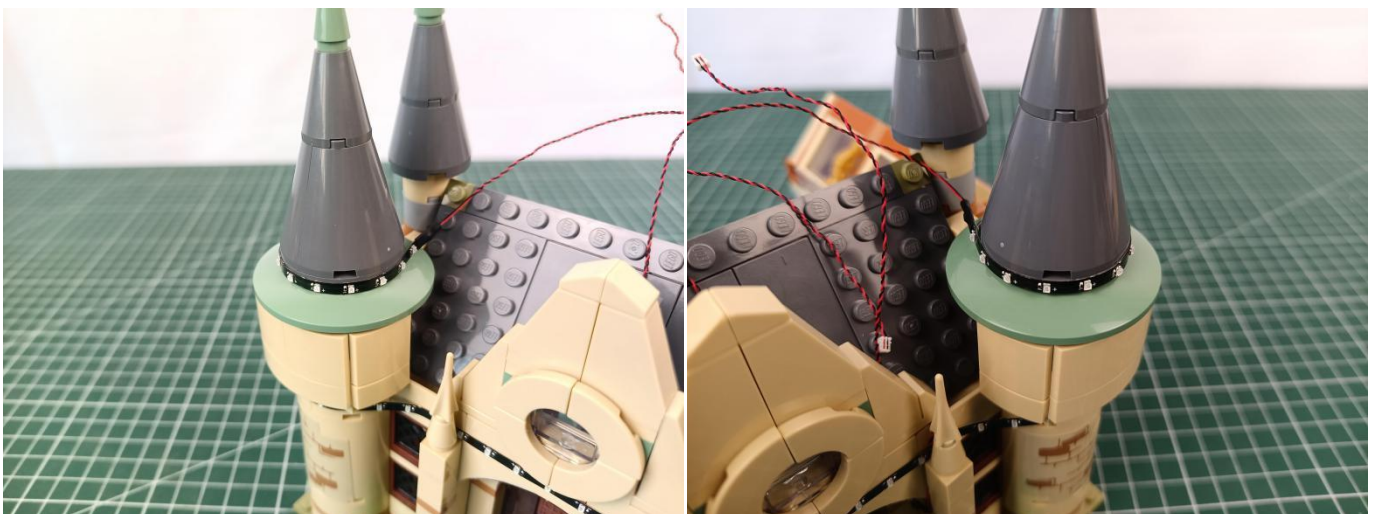
149. Turn to the following place.



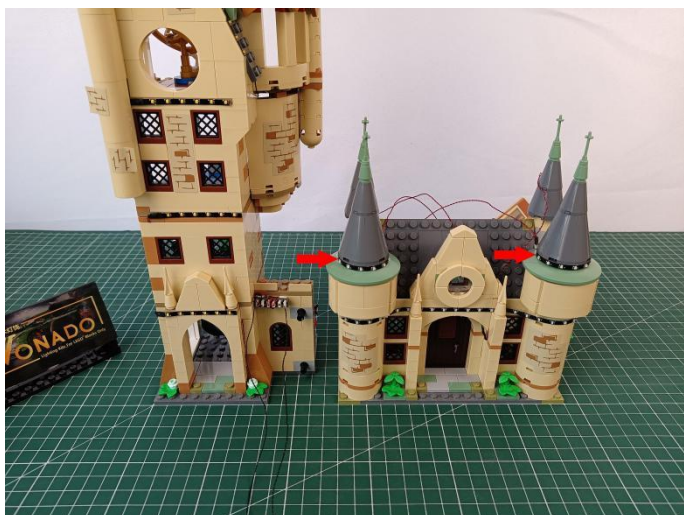
150. Take 2 blue 15cm strip lights (with 14 lights).



151. Stick the strip lights to the following places.



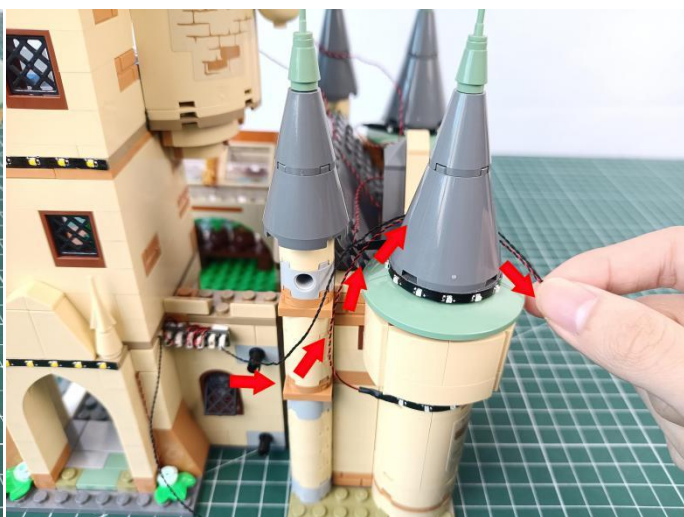
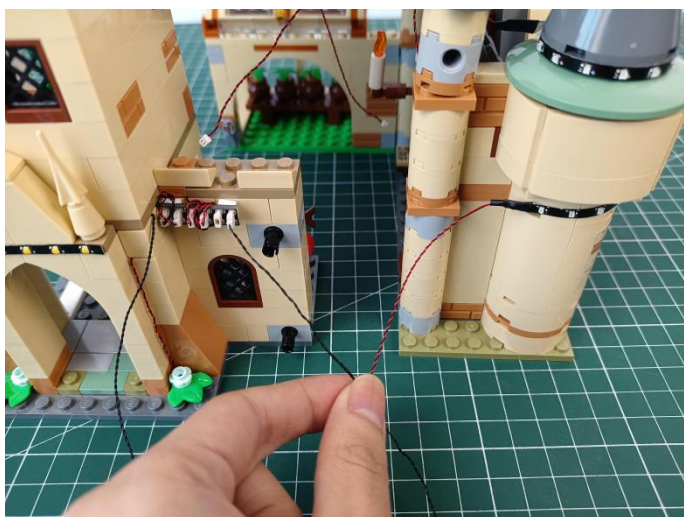
152.As per below.



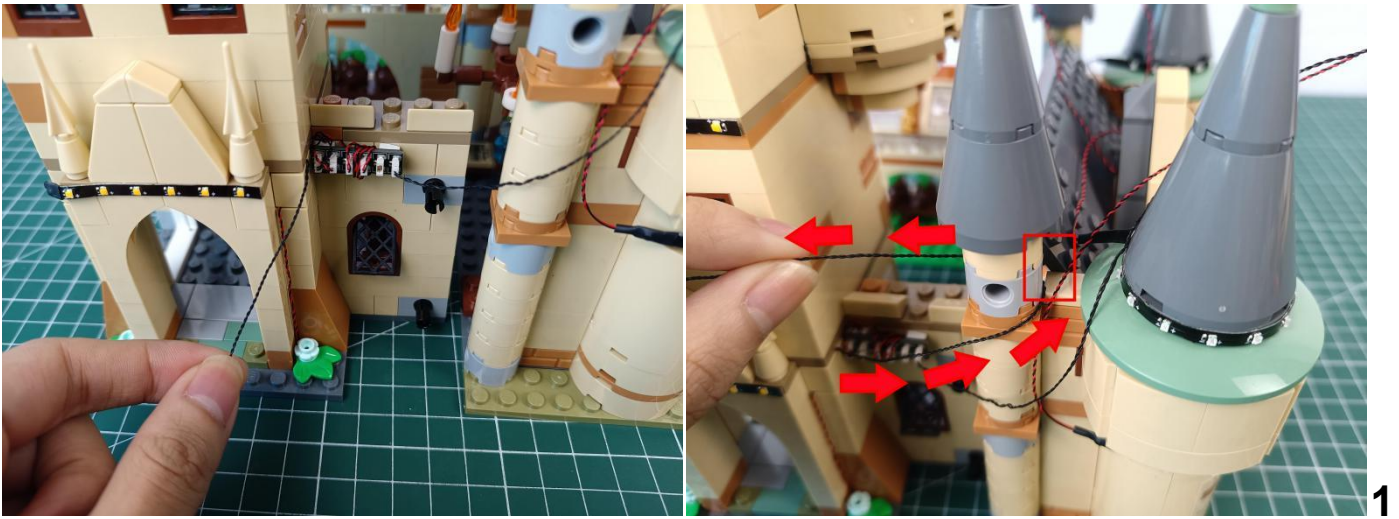
153.Turn the B part to the side.



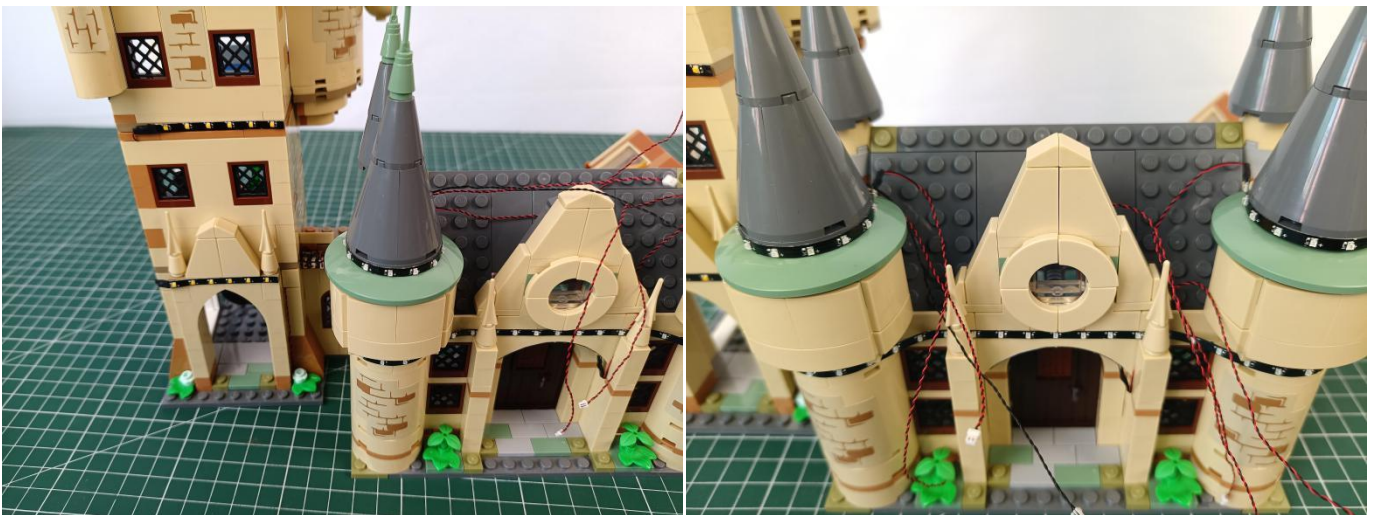
154.Take the following 2 cables, wind them around the following place at the B part.



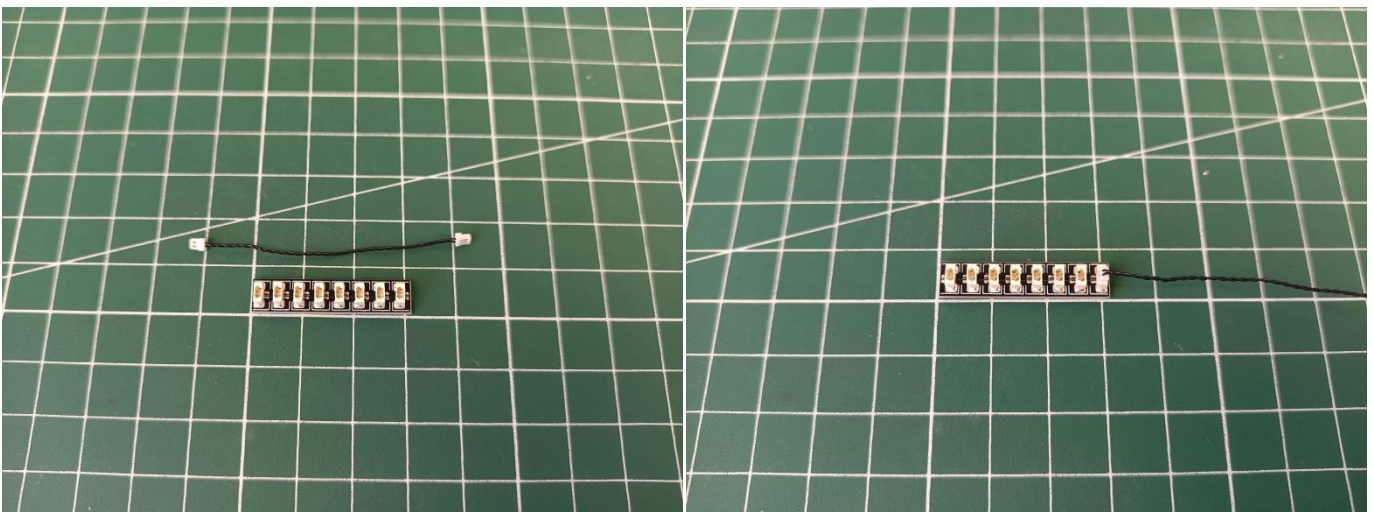
155. Thread the following cable through the space, and pull it to the back.



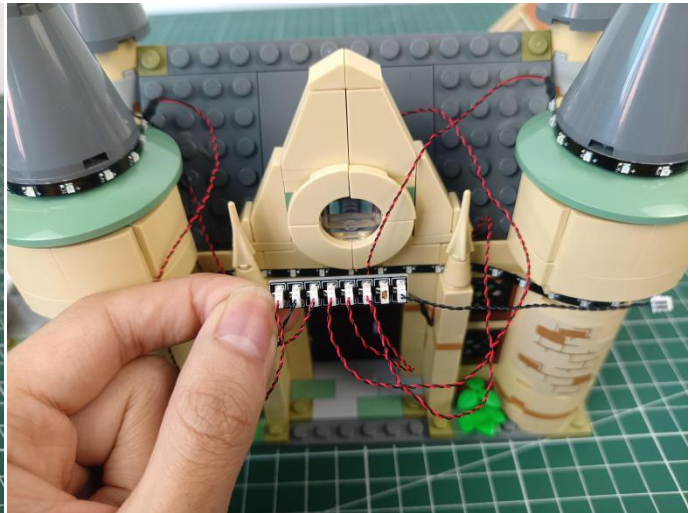
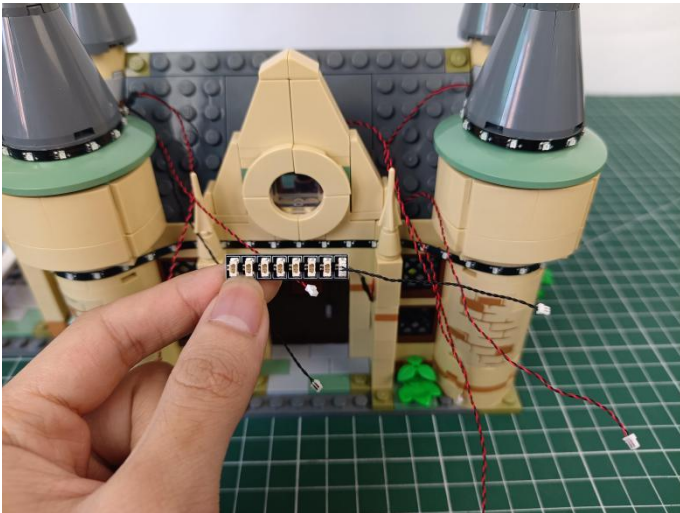
156. Connect the A part to the B part.



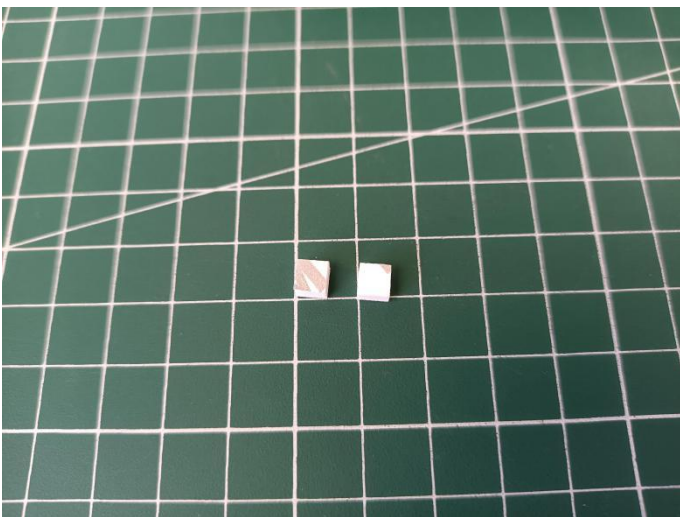
157. Take a 5cm connecting cable, an 8-port expansion board, assemble them as per below.



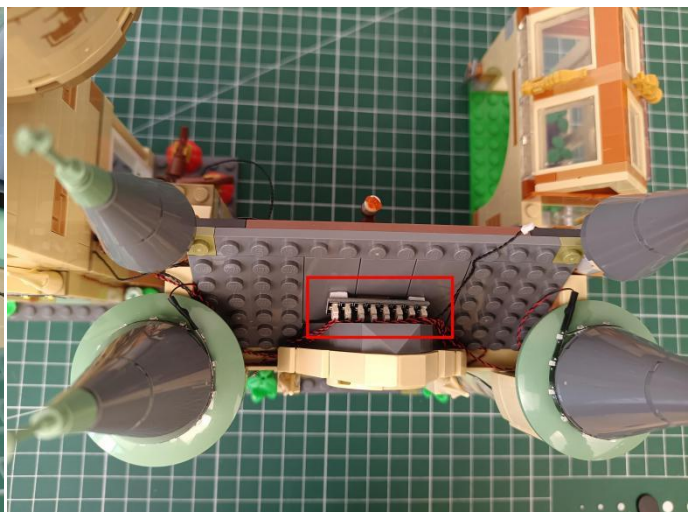
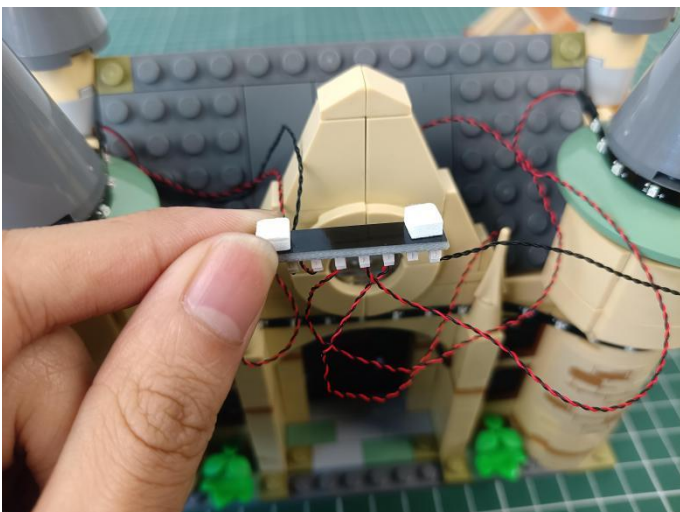
158. Connect all the following cables to the expansion board.



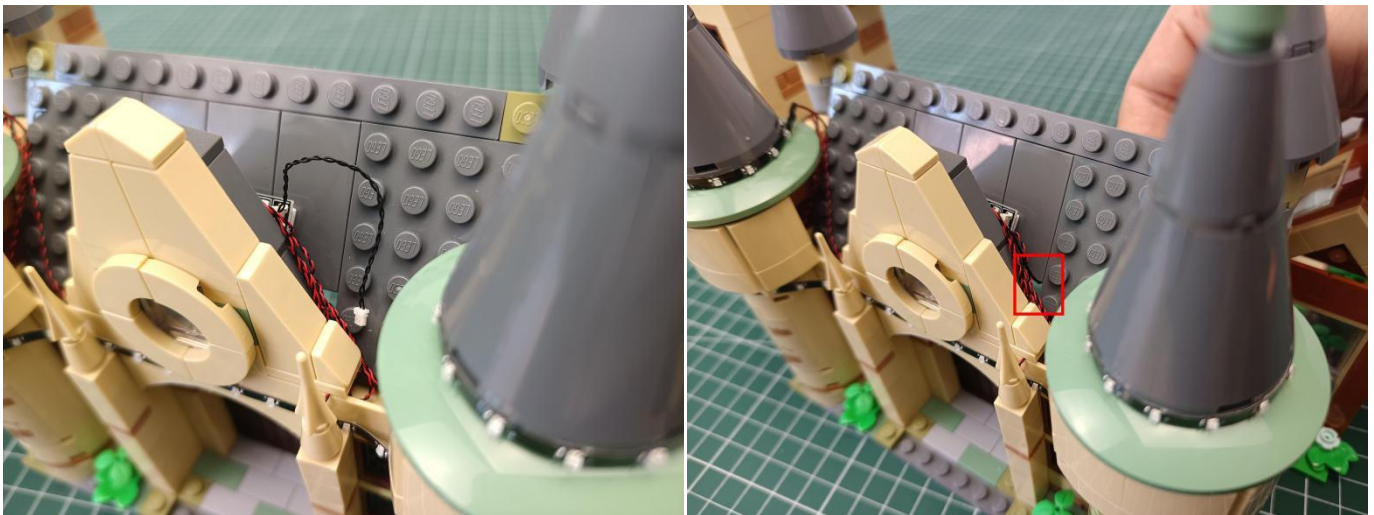
159. Take 2 adhesive squares.



160. Stick them to the back of the expansion board, and stick the expansion board to the following place.



161. Thread the cable through the following space to the back.



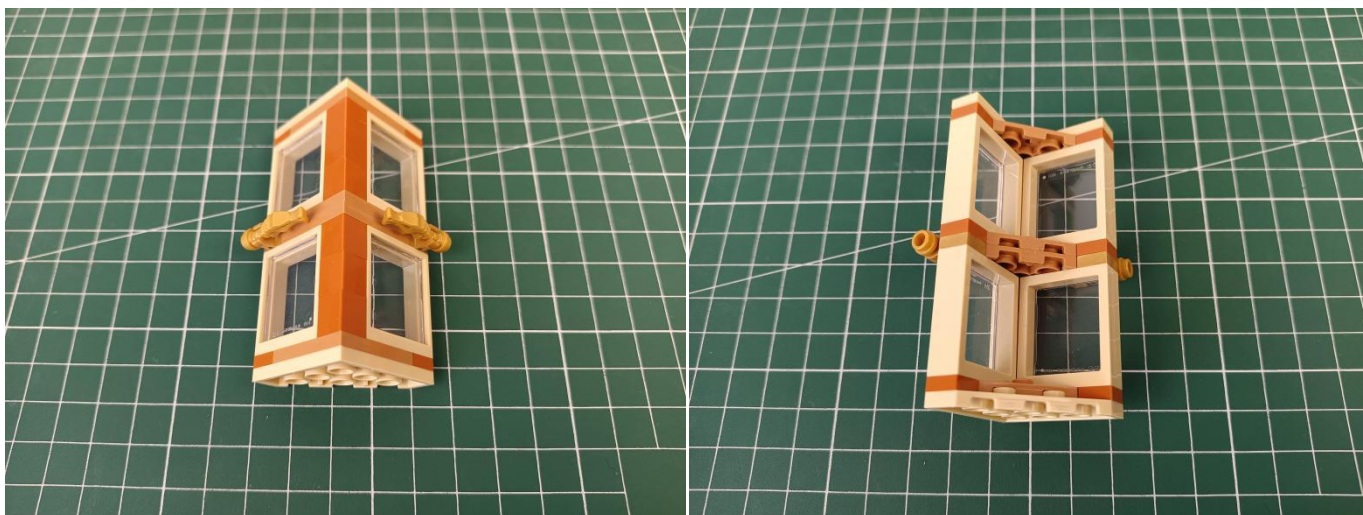
162. Turn to the back.



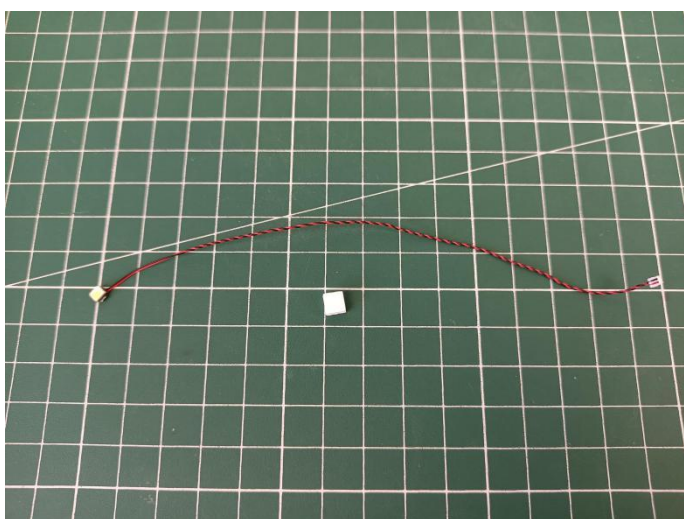
163. Remove the roof of the house at the left.



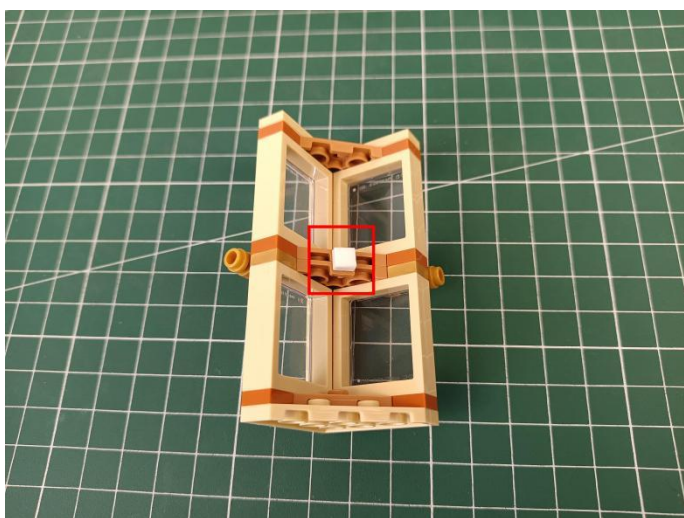
164. Turn the roof to the back.



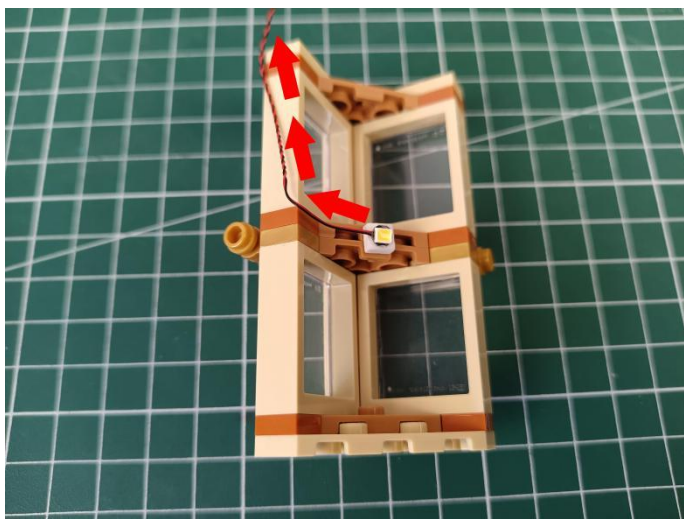
165. Take a 15cm head light, an adhesive square.



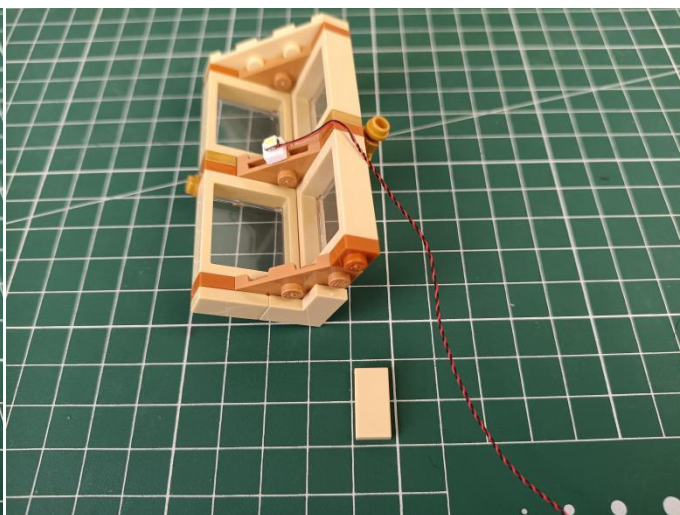
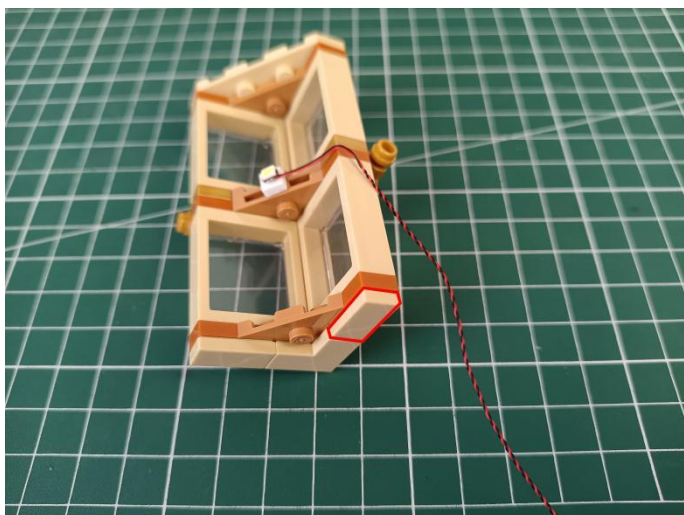
166. Stick the adhesive square to the following place.



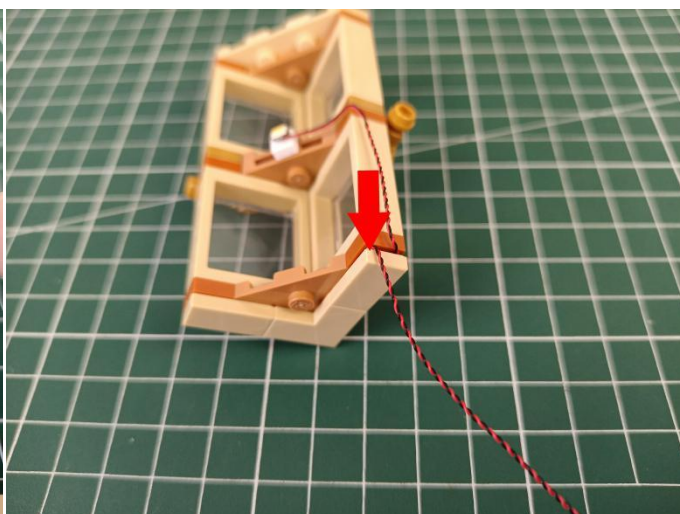
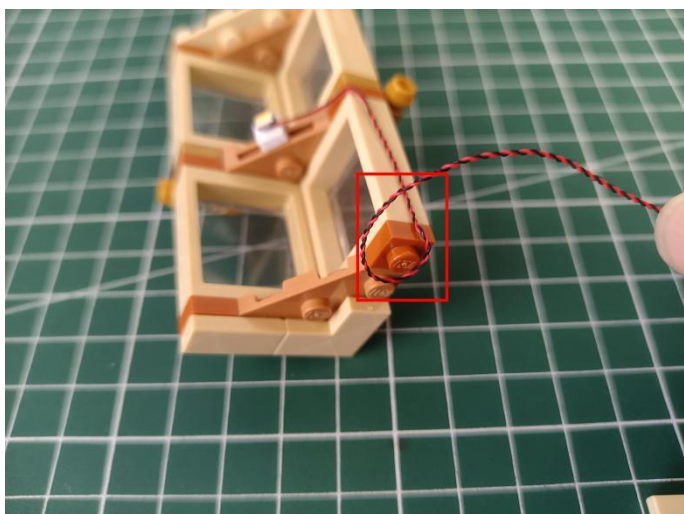
167. With lighting part facing up, stick the light to the adhesive square.



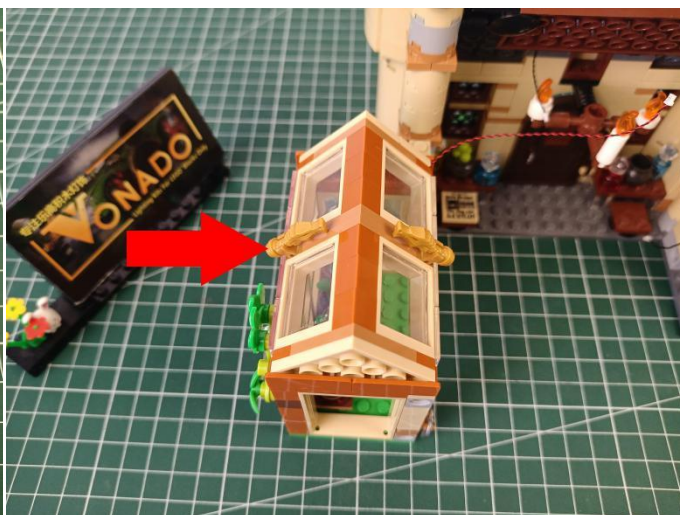
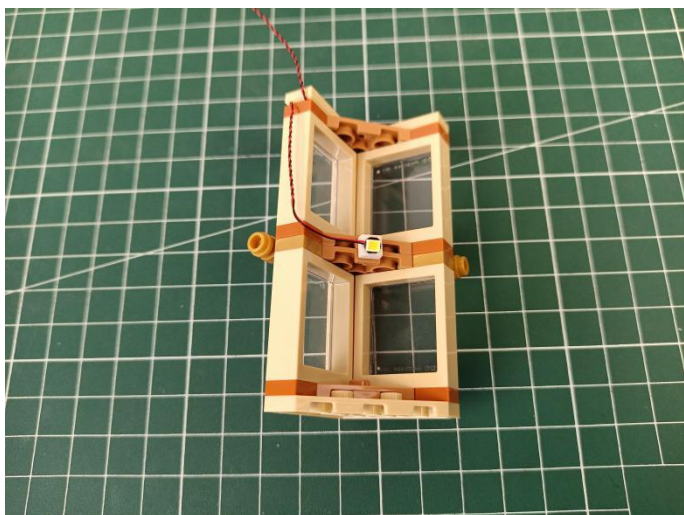
168. Turn to the other side, remove the following plate.



169. Wind the cable around the following place, reconnect the plate.



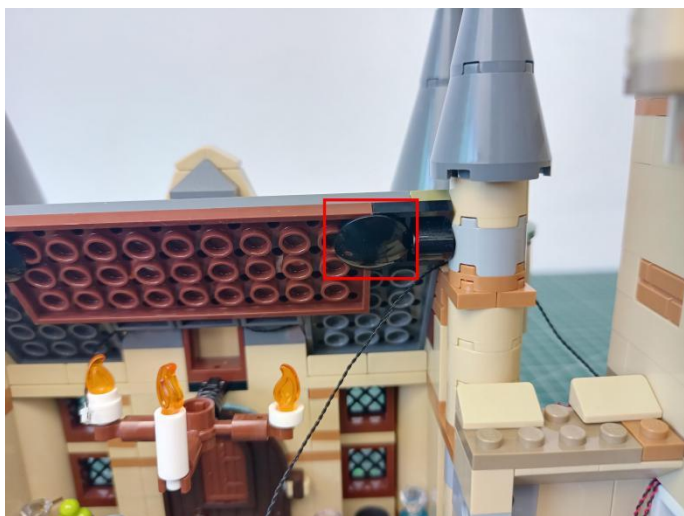
170. Turn to the other side, reconnect the roof.



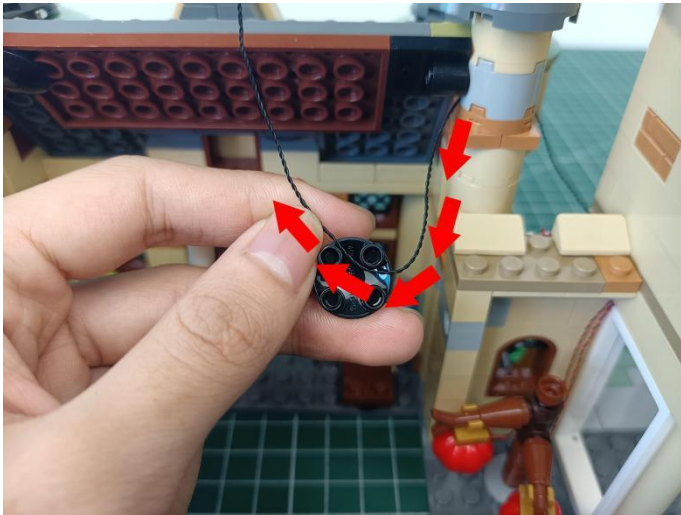
171. Turn to the following place.



172. Remove the following black round plate.



173. Place the cable as per below, reconnect the black round plate.



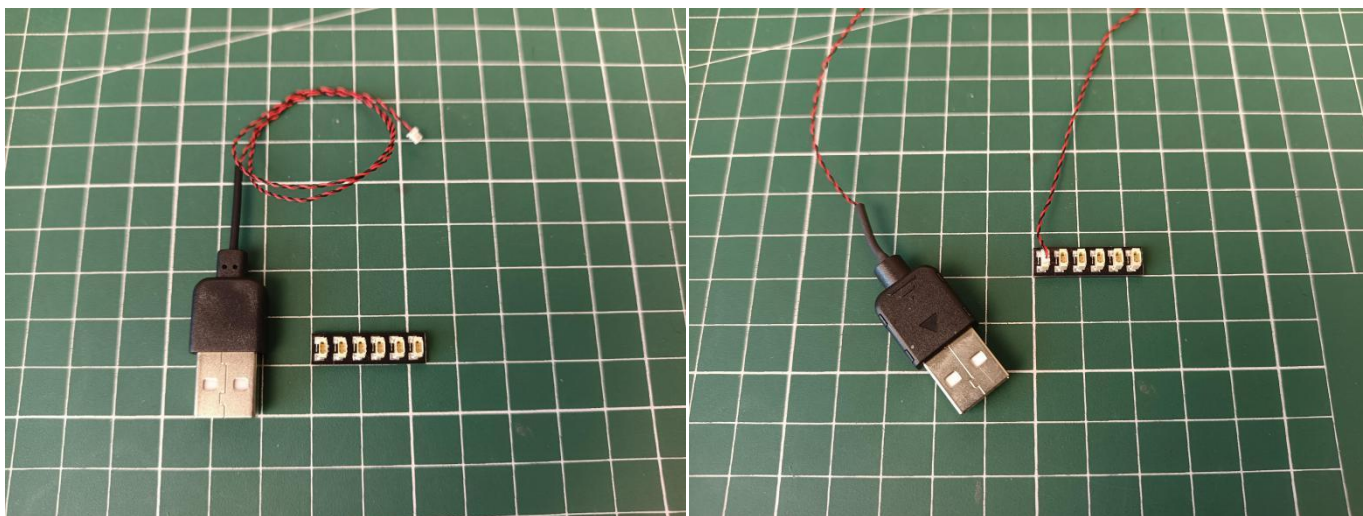
174. Take a 5cm connecting cable, a warm white strip light, assemble them as per below.



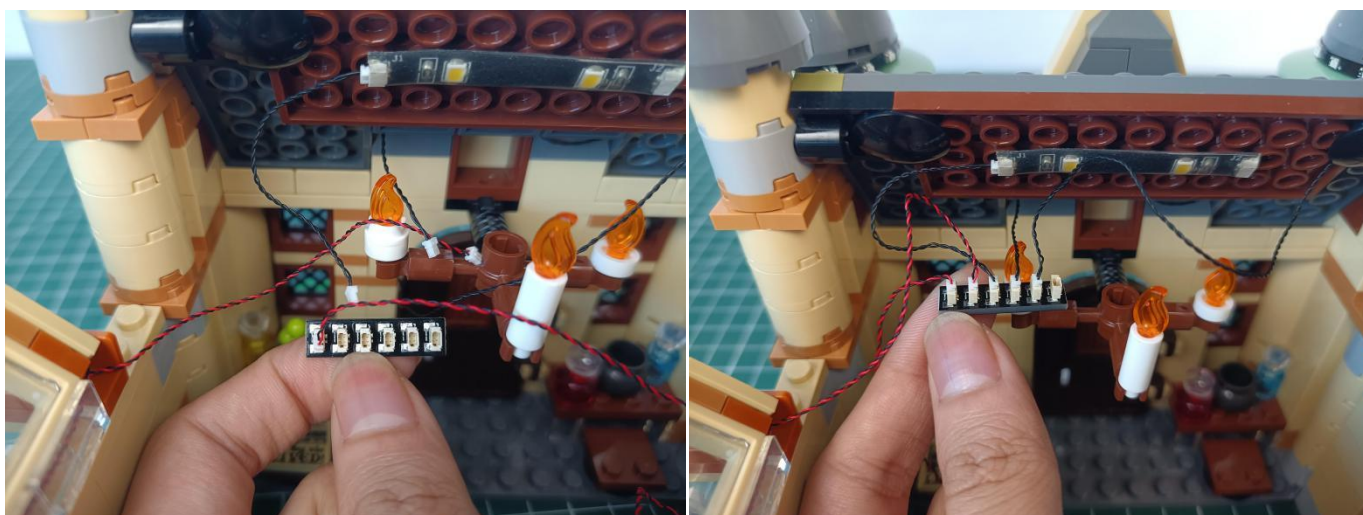
175. Stick the strip light to the following place.



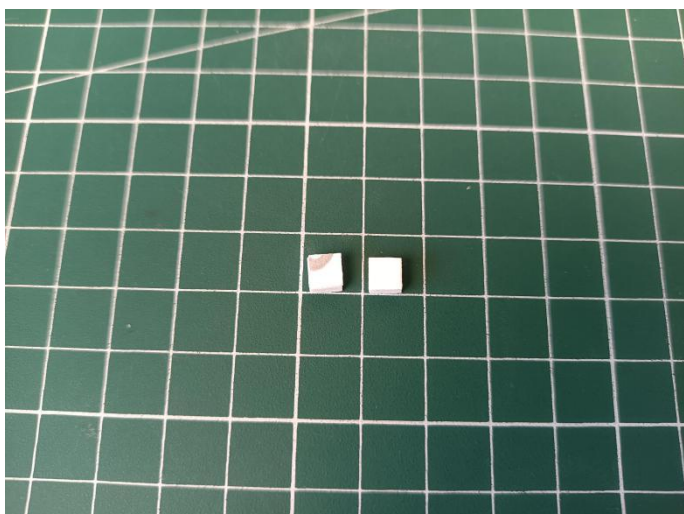
176. Take a USB cable, a 6-port expansion board, assemble them as per below.



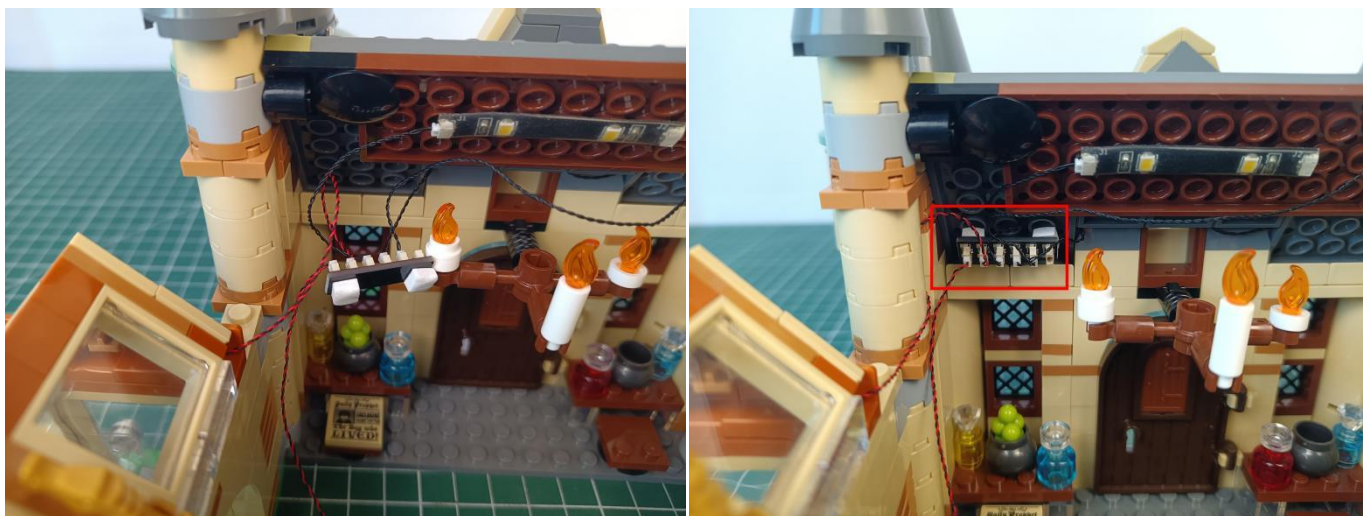
177. Connect all the following cables to the expansion board.



178. Take 2 adhesive squares.



179. Stick them to the back of the expansion board, and stick the expansion board to the following place.



Good job, you've done all the installation steps, power it up and enjoy your work.

